

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 August 2002 (08.08.2002)

PCT

(10) International Publication Number
WO 02/061087 A2

- (51) International Patent Classification⁷: C12N 15/12, C07K 14/705, 16/28, G01N 33/53 [US/US]; 411 West Prospect Street, Seattle, WA 98119 (US).
- (21) International Application Number: PCT/US01/50107 (74) Agents: KING, Joshua et al.; Graybeal Jackson Haley LLP, Suite 350, 155 - 108th Avenue Northeast, Bellevue, WA 98004-5901 (US).
- (22) International Filing Date: 19 December 2001 (19.12.2001) (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/257,144 19 December 2000 (19.12.2000) US (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application: US 60/257,144 (CIP) Filed on 19 December 2000 (19.12.2000)
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- Published:**
— *without international search report and to be republished upon receipt of that report*
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*



WO 02/061087 A2

(54) Title: ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS (GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH ANTIGENIC PEPTIDES

(57) Abstract: The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known antibodies.

ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS
(GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH
ANTIGENIC PEPTIDES

5 CROSS-REFERENCE TO RELATED APPLICATIONS

[1] The present application claims priority from United States provisional patent application No. 60/257,144, filed December 19, 2000 and presently pending.

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HUMANIZED MOAB:

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LPHIC:

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10 ABSTRACT

[3]

BACKGROUND

[4] G protein-coupled receptors (GPCRs) are a large group of proteins that transmit signals across cell membranes. In general terms, GPCRs function somewhat like doorbells.
15 When a molecule outside the cell contacts the GPCR (pushes the doorbell), the GPCR changes its shape and activates "G proteins" inside the cell (similar to the doorbell causing the bell to ring inside the house, which in turn causes people inside to answer the door). GPCRs are like high-security doorbells because each GPCR responds to only one specific kind of signaling molecule (called its "endogenous ligand"), kind of like a high-tech door
20 lock that responds to only one fingerprint. Part of the GPCR is located outside the cell (the "extracellular domain"), part spans the cell's membrane (the "transmembrane domain"), and part is located inside the cell (the "intracellular domain"). Thus, GPCRs are embedded in the outer membrane of a cell and recognize and bind certain signaling molecules that are present in the spaces surrounding the cell. GPCRs are used by cells to keep an eye on the cells' own
25 activity and on the environment. In organisms that have many cells, the cells use GPCRs to talk to each other.

[5] GPCRs are important to the pharmaceutical industry and other industries. For example, many drugs, including some antibody-based drugs, act by binding to specific GPCRs and initiating or inhibiting their intracellular actions, and diagnostics and therapeutics
30 based on GPCRs or on antibodies for GPCRs are becoming increasingly important.

[6] General concepts about GPCRs are discussed in more scientific terms in the following paragraphs.

[7] The GPCR superfamily has at least 250 members, Strader et al., FASEB J., 9:745-754 (1995); Strader et al., Annu. Rev. Biochem., 63:101-32 (1994). GPCRs play important

roles in diverse cellular processes including cell proliferation and differentiation, leukocyte migration in response to inflammation, gene transcription, vision (the rhodopsins), smell (the olfactory receptors), neurotransmission (muscarinic acetylcholine, dopamine, and adrenergic receptors), and hormonal response (luteinizing hormone and thyroid-stimulating hormone receptors). Strader et al., *supra*; U.S. Patent nos. 5,994,097 and 6,063,596. Many important drugs produce their therapeutic actions through their interaction with GPCRs.

[8] Nucleotide and amino acid sequences for many GPCRs have been reported and can be found in public databases such as GenBank and GenPept. Generally speaking, different GPCRs show both structural and sequence similarities. The most conserved domains of GPCRs are the transmembrane domains and the first two cytoplasmic loops. GPCRs range in size from under 400 to over 1000 amino acids. Coughlin, S. R., *Curr. Opin. Cell Biol.* 6:191-197 (1994). They contain seven hydrophobic transmembrane regions that span the cellular membrane and form a bundle of antiparallel alpha helices. McKee K.K., *supra*. The bundle of helices forming the transmembrane regions provide many structural and functional features of the receptor. In most cases, the bundle of helices form a pocket that binds a signaling molecule. However, when the binding site accommodates larger molecules, the extracellular N-terminal segment or one or more of the three extracellular loops participate in binding and in subsequent induction of conformational change in the intracellular portions of the receptor. These helices are joined at their ends by three intracellular and three extracellular loops. GPCRs also contain cysteine disulfide bridges between the second and third extracellular loops, an extracellular N-terminus, and a cytoplasmic or intracellular C-terminus. The N-terminus is often glycosylated, while the C-terminus is generally phosphorylated. A conserved, acidic-Arg-aromatic triplet present in the second cytoplasmic loop may interact with G Proteins. Most GPCRs contain a characteristic consensus pattern. Watson, S. and S. Arkininstall, *The G protein Linked Receptor Facts Book*, Academic Press, San Diego, CA (1994); Bolander, F. F. *Molecular Endocrinology*, Academic Press, San Diego, CA (1994).

[9] Although GPCRs have many features in common, each GPCR has its own unique characteristics as well. GPCRs have varying nucleotide and amino acid sequences, and varying antigenicity. GPCRs bind a diverse array of specific, extracellular signaling molecules (which can also be referred to as "ligands") including peptides, cytokines, hormones, neurotransmitters, growth factors, and specialized stimuli such as photons,

flavorants, and odorants. Identified ligands include, for example, purines, nucleotides (*e.g.*, adenosine, cAMP, NTPs), biogenic amines (*e.g.*, epinephrine, norepinephrine, dopamine, histamine, noradrenaline, serotonin), acetylcholine, peptides (*e.g.*, angiotensin, calcitonin, chemokines, corticotropin releasing factor, galanin, growth hormone releasing hormone, gastric inhibitory peptide, glucagon, neuropeptide Y, neurotensin, opioids, thrombin, secretin, somatostatin, thyrotropin releasing hormone, vasopressin, vasoactive intestinal peptide), lipids and lipid-based compounds (*e.g.*, cannabinoids, platelet activating factor), excitatory and inhibitory amino acids (*e.g.*, glutamate, GABA), ions (*e.g.*, calcium), and toxins.

[10] In general, a GPCR binds only one type of signaling molecule and GPCRs are classified according to subfamilies based upon their selectivity and specificity for a particular ligand. When the ligand for a receptor is not known, the receptor is known as an orphan receptor. The extracellular domain interacts with or binds to certain signaling molecules or ligands located outside of the cell. The binding of a ligand to the extracellular domain alters the conformation of the receptor's intracellular domain causing the activation of a G protein. The G protein then activates or inactivates a separate plasma-membrane-bound enzyme or ion channel. This chain of events alters the concentration of one or more intracellular messengers (second messengers) such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . These, in turn, alter the activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to the transduction and amplification of the original extracellular signal. Baldwin, J.M., *Curr. Opin. Cell Biol.* 6:180-190 (1994). The G protein is deactivated by hydrolysis of GTP by GTPase. U.S. Patent Nos. 5,994,097 and 6,063,596.

[11] GPCR mutations, both of the loss-of-function and of the activating variety, have been associated with numerous human diseases, Coughlin, *supra*. For example, retinitis pigmentosa may arise from either loss-of-function or activating mutations in the rhodopsin gene. Somatic activating mutations in the thyrotropin receptor cause hyperfunctioning thyroid adenomas, Parma, J. et al., *Nature* 365:649-651 (1993). Parma et al. indicate that it may be possible that certain G protein-coupled receptors susceptible to constitutive activation may behave as proto-oncogenes. Interestingly, GPCRs have functional homologues in human cytomegalovirus and herpesvirus, so GPCRs may have been acquired during evolution for viral pathogenesis, Strader et al., *FASEB J.*, 9:745-754 (1995); Arvanitakis et al., *Nature*, 385:347-350 (1997); Murphy, *Annu. Rev. Immunol.* 12:593-633 (1994). The

importance of the GPCR superfamily is further highlighted by the recent discoveries that some of its family members, the chemokine receptors CXCR4/Fusin and CCR5, are co-receptors for T cell-tropic and macrophage-tropic HIV virus strains, respectively, Alkhatib et al., Science, 272:1955 (1996); Choe et al., Cell, 85:1135 (1996); Deng et al., Nature, 381:661 (1996); Doranz et al., Cell, 85:1149 (1996); Dragic et al., Nature, 381:667 (1996); Feng et al., Science, 272:872 (1996). It is conceivable that blocking these receptors may prevent infection by the human immunodeficiency (HIV) virus. Other GPCR-related items include regulating cellular metabolism and diagnosing, treating and preventing particular diseases associated with particular GPCRs.

10 [12] One important way to evaluate GPCRs and antibodies for GPCRs as novel drug targets and for other purposes such as diagnostics is through the creation and use of databases. Such databases can provide large amounts of information about genes, proteins, and other biological matter. An excellent example of such a database is the GPCR database created and maintained by LifeSpan BioSciences, Inc., Seattle, Washington, USA, which
15 database is available by subscription to researchers and others needing such information. The information in the databases can, for example, be searched, compared, and analyzed. The compilation of such databases, as well as the searching, comparing, etc., of the databases, can be referred to as the field of "bioinformatics." Investigations largely related to genes, such as the information found from the sequencing of the human genome, can be called "genomics"
20 while similar activities on proteins can be called "proteomics."

[13] There has gone unmet a need for improved systems, compositions, methods, and the like relating to improved antigenicity of peptides from GPCRs and antibodies relating thereto. The present invention provides these and other advantages.

SUMMARY

25 [14] The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention
30 provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known

antibodies. The present invention also provides improved methods of selecting antigenic peptides from any desired protein or polypeptide, as well as antigenic peptides so produced and antibodies against such antigenic peptides.

- [15] The antigenic peptides and antibodies herein can be used, for example, to detect the presence or absence of corresponding GPCRs. They can be used to diagnose a variety of diseases and disorders in which GPCRs are involved, such as, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

[16] The association of particular GPCRs with particular diseases, disorders or conditions will be apparent to a person of ordinary skill in the art in view of the present application, and thus the association with the antibodies of the present invention to the corresponding diseases, disorders or conditions.

5 [17] Thus, in one aspect the present invention provides isolated antigenic peptides according to any one of SEQ ID NOS. 692-2292. The isolated antigenic peptides also comprise an amino acid sequences that are at least about 90% or 95% identical to such sequences, or be an analog of such sequences, or comprise a short antigenic amino acid sequence that is identical to at least 5 consecutive amino acids set forth in any one of such
10 sequences or contain no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any of such sequences. The present invention also provides antibodies, particularly isolated antibody having high specificity and high affinity or avidity for a particular GPCR or other target polypeptide or protein, generated using the antigenic peptides discussed herein.

15 [18] The present invention also provides isolated nucleic acid molecules encoding an antigenic peptide or antibody as described herein. The molecule can encode a naturally occurring human antigenic peptide. In some embodiments, the present invention provides processes for producing an isolated polynucleotide can comprise hybridizing a nucleotide encoding an antigenic peptide as discussed herein to DNA such as genomic DNA under
20 stringent or highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

[19] The present invention also provides kits and assays, such as kits for the detection of antibodies against a particular GPCR or other target polypeptide in a sample comprising: a) an isolated antigenic peptide as discussed herein and derived from the particular GPCR, and
25 b) at least one of a reagent or a device for detecting the antibodies, or comprising: a) an isolated antibody as described herein, and b) at least one of a reagent or a device for detecting the antibody. The assays include detection of a particular GPCR in a sample, comprising: a) providing an isolated antigenic peptide, b) contacting the isolated antigenic peptide corresponding to the particular GPCR with the sample under conditions suitable and for a
30 time sufficient for the antigenic peptide to bind to one or more antibodies specific for the target protein present in the sample, to provide an antibody-bound target protein, and c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the

sample contains the particular GPCR. The assays can further comprise the step of binding the isolated antigenic peptide or the antibody to a solid substrate, and the sample can be an unpurified sample, for example from a human being.

[20] The assay can be selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.

[21] In other aspects, the present invention provides methods of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence such as a polypeptide or protein wherein the antigenic peptide has a length of about 5 to about 100 amino acids, typically 6 amino acids to about 50 amino acids, and preferably 7 amino acids to about 20 amino acids. The methods comprise: a) searching the candidate polypeptide sequence using a comparison window of the length, and b) selecting against amino acid sequences of the length and having at least 1 to 3 or 4 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, the method comprises selecting against at least 5 to all of the characteristics.

[22] The methods can comprise, independently or in addition, selecting against amino acid sequences of the desired length having at least one of the following characteristics 1) sequences having at least 5 consecutive amino acids that are identical to an alternative amino acid sequence from an alternative polypeptide that can be different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences. The posttranslational modification sites can be phosphorylation or glycosylation sites. The methods can also comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.

[23] These and other aspects, features, and embodiments are set forth within this application, including the following Detailed Description and attached drawings. The present invention comprises a variety of aspects, features, and embodiments; such multiple aspects,

features, and embodiments can be combined and permuted in any desired manner. In addition, various references are set forth herein, including in the Cross-Reference To Related Applications, that discuss certain compositions, apparatus, methods, or other information; all such references are incorporated herein by reference in their entirety and for all their teachings and disclosures, regardless of where the references may appear in this application.

BRIEF DESCRIPTION OF THE DRAWING

[24] Figure 1 depicts representative examples of the nucleotide and amino acid sequences of the GPCRs for which antigenic peptides are set forth herein, SEQ ID NOS. 1 - 691.

10 [25] Figure 2 depicts amino acid sequences for the antigenic peptides for the GPCRs herein, SEQ ID NOS. 692-2292.

[26] Figure 3 depicts a listing of GPCRS for which commercially available antibodies are putatively available.

DETAILED DESCRIPTION

15 A. INTRODUCTION AND OVERVIEW

[27] Diseases such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases are serious health problems in the modern world. Any improvement in the diagnosis, treatment or other remediation of such diseases is a significant advance for millions of people. The present invention provides methods of identifying and selecting desirable antigenic peptides for GPCRs and other desired target or candidate proteins and polypeptides. The present invention also provides the antigenic peptides themselves, as well as antibodies against the antigenic peptides (and against proteins or polypeptides containing such antigenic peptides), and related diagnostics, antibody-based therapeutics directed to certain diseases and conditions, and other helpful compositions, systems, kits, assays and the like. The compositions, methods, and the like can be useful, for example, as agonists, antagonists, probes, and otherwise as may be desired.

[28] The antigenic peptides have been carefully selected using specific selection criteria and methodologies set forth herein to take advantage of particularly advantageous regions of the GPCRs from which they have been derived to provide unusually specific and

immunogenic antigens. These antigenic peptides are particularly useful for producing highly specific antibodies against the antigenic peptides, which, in turn, also means antibodies that are highly specific for the corresponding GPCRs containing the antigenic peptides. Accordingly, the antigenic peptides of the present invention, and the antibodies produced
5 therefrom, are particularly useful for high specificity, low noise diagnostics and, in the case of the antibodies, for certain antibody-based therapeutics, as well as methods, kits, systems, and the like incorporating or based on such antigenic peptides or antibodies.

[29] The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can
10 selectively detect the corresponding GPCR in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected.

15 [30] The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[31] Figure 1 sets forth the DNA and protein sequences for the GPCRs from which the
20 antigenic peptides of the present invention were derived SEQ ID NOS. 1-691. Figure 2 sets forth the amino acid sequences of exemplary antigenic peptides, SEQ ID NOS. 692-2292. The sequences in Figures 1 and 2 are listed according to SEQ ID NO and LSID, which is an identification number assigned to the given sequence in the LifeSpan Biosciences databases. The sequences in Figure 2 also include an identifier LPID, which is also an identification
25 number assigned to the given sequence in the LifeSpan Biosciences databases. Figure 3 depicts GPCRs for which it has been reported that antibodies are commercially available, SEQ ID NOS. 1, 3, 5, 11, 13, 15, 21, 23, 25, 27, 29, 31, 35, 37, 39, 41, 43, 45, 49, 51, 53, 57, 59, 61, 63, 65, 67, 69, 70, 71, 73, 75, 77, 79, 83, 85, 97, 99, 101, 103, 105, 107, 113, 115, 117, 121, 125, 135, 139, 143, 145, 147, 151, 155, 157, 159, 161, 169, 171, 173, 175, 177,
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423, 435, 439, 457, 459, 461, 462, 468, 470, 472, 503, 507, 515, 535, 537, 546, 548, 552, 562, 628, 636; Applicants do not represent that any of the antibodies in Figure 3 that such antibodies are actually commercially available nor that they have any significant specificity nor affinity for the GPCRs reported. For GPCRs for which no antigens or antibodies were previously known, the present invention provides valuable antigenic peptides and antibodies (see, e.g., SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.); for GPCRs for which antigens or antibodies are known, the present invention provides improved antigens in the form of antigenic peptides and improved antibodies (see, e.g., SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, which are antigenic peptides derived from GPCRs for which antibodies are reportedly commercially available). The antigenic peptides and antibodies, and uses and assays, etc., related to the antigenic peptides, are discussed further below.

[32] The discussion herein, including the following passages, has been separated by headings for convenience. The disclosure under a given heading is not restricted to that heading. For example, the discussion in the definitions section is a part of the disclosure of the invention, the discussion on antigenic peptides also contains discussion related to probes and diagnostics, and the discussion on antibodies contains discussion related to therapeutic compositions, etc.

B. DEFINITIONS

[33] The following paragraphs provide a non-exhaustive list of definitions of some of the terms and phrases as used herein. All terms used herein, including those specifically described below in this section, are used in accordance with their ordinary meanings unless the context or definition indicates otherwise. Also unless indicated otherwise, except within

the claims, the use of "or" includes "and" and vice-versa. Non-limiting terms are not to be construed as limiting unless expressly stated (for example, "including" means "including without limitation" unless expressly stated otherwise).

[34] The terms set forth in this application are not to be interpreted in the claims as indicating a "means plus function" relationship unless the word "means" is specifically recited in a claim, and are to be interpreted in the claims as indicating a "means plus function" relationship where the word "means" is specifically recited in a claim. Similarly, the terms set forth in this application are not to be interpreted in method or process claims as indicating a "step plus function" relationship unless the word "step" is specifically recited in the claims, and are to be interpreted in the claims as indicating a "step plus function" relationship where the word "step" is specifically recited in a claim.

[35] "Agonist" indicates a substance, such as a molecule or compound, that interacts with a particular GPCR, for example by binding to the GPCR, to activate, increase, or prolong the amount or the duration of the effect of the biological activity or functionality of the GPCR. Agonists include proteins, nucleic acids, carbohydrates, or any other molecules that bind to and positively modulate the effect of the GPCR. Agonists and other modulators of the particular GPCR can be identified using *in vitro* or *in vivo* assays for G protein-coupled receptor expression or G protein-mediated signaling. For example, assays for agonists and other modulators include expressing a particular GPCR in cells or cell membranes, applying putative modulator compounds in the presence or absence of a specific known or putative ligand and then determining the functional effects on the particular GPCR-mediated signaling. Samples or assays comprising a particular GPCR that are treated with a potential agonist or other modulator are compared to control samples without the agonist or other modulator to examine the extent of modulation. Control samples can be assigned a relative activity value for the particular GPCR of 100%. Agonist activity on a particular GPCR is achieved when the G protein-coupled receptor activity value relative to the control is at least about 110%, optionally about 150%, preferably about 200-500%, or about 1000-3000% or higher. Down-modulation (for example by an antagonist) of a particular GPCR is achieved when the particular GPCR activity value relative to the control is at most about 90%, typically about 80%, optionally about 50% or about 25-0% of the 100% value.

[36] "Aggregate," see Complex.

[37] "Algorithm" refers to a detailed sequence of actions to perform to accomplish some task. In computer programming, refers to instructions given to the computer.

[38] "Allele" or "allelic sequence" indicates an alternative form of the gene encoding the GPCR. Alleles may result from at least one mutation in the nucleic acid sequence and may
5 result in altered mRNAs or in polypeptides whose structure or function may or may not be altered. Any given natural or recombinant gene may have none, one, or many allelic forms. Common mutational changes that give rise to alleles are generally ascribed to natural deletions, additions, or substitutions of nucleotides. Each of these types of changes may occur alone or in combination with the others, one or more times in a given sequence.

10 [39] "Altered" nucleic acid sequences encoding the GPCR include those sequences with deletions, insertions, or substitutions of different nucleotides, resulting in a polynucleotide encoding the same GPCR or a polypeptide variant with at least one substantial structural or functional characteristic of the GPCR. Included within this definition are polymorphisms that may or may not be readily detectable using a particular oligonucleotide probe against the
15 polynucleotide encoding the GPCR. "Altered" proteins may contain deletions, insertions, or substitutions of amino acid residues that produce a silent change and result in a functionally equivalent GPCR. Deliberate amino acid substitutions may be made on the basis of similarity in polarity, charge, solubility, hydrophobicity, hydrophilicity, or the amphipathic nature of the residues, as long as the biological or immunological activity of the GPCR is
20 retained. For example, negatively charged amino acids may include aspartic acid and glutamic acid, positively charged amino acids may include lysine and arginine, and amino acids with uncharged polar head groups having similar hydrophilicity values may include leucine, isoleucine, and valine; glycine and alanine; asparagine and glutamine; serine and threonine; and phenylalanine and tyrosine.

25 [40] "Alternative splicing" refers to different ways of cutting and assembling exons to produce mature mRNAs.

[41] "Amino acid" refers generally to any of a class of organic compounds that contains at least one amino group, $-NH_2$, and one carboxyl group, $-COOH$. The alpha-amino acids, $RCH(NH_2)COOH$, are the building blocks from which proteins are typically constructed.
30 Amino acid can also refer to artificial chemical analogues or mimetics of a given amino acid as described, depending on the context.

[42] "Amino acid sequence" refers to a string of amino acids, such as an oligopeptide, peptide, polypeptide, or protein sequence, or a fragment of any of these, including naturally occurring or synthetic molecules and those comprising an artificial chemical analogue or mimetic of a given amino acid. In this context, "biologically active fragments," "biologically functional fragments," "immunogenic fragments," and "antigenic fragments" refer to fragments of the GPCR that are preferably about 15, 25, or 50 or more amino acids in length and that retain a substantial amount of such activity of the GPCR. Where "amino acid sequence" refers to an amino acid sequence of a naturally occurring protein molecule, "amino acid sequence" and like terms are not necessarily limited to the complete native amino acid sequence associated with the recited protein molecule.

[43] "Amplification" indicates the production of additional copies of something, such as a nucleic acid sequence. Amplification can be generally carried out using polymerase chain reaction (PCR) technologies or other technologies such as the cycling probe reaction (CPR) that are well known in the art. *See, e.g.*, Dieffenbach, C. W. and G. S. Dveksler, PCR Primer, a Laboratory Manual, pp.1-5, Cold Spring Harbor Press, Plainview, N.Y. (1995); U.S. Patents Nos. 5,660,988, 5,731,146 and 6,136,533.

[44] "Amplification primers" are oligonucleotides such as natural, analog or artificially created nucleotides that can serve as the basis for the amplification of a selected nucleic acid sequence. They include, for example, both PCR primers and ligase chain reaction oligonucleotides.

[45] "Analog" or "variant" indicates a GPCR or antigenic peptide that has been modified by deletion, addition, modification, or substitution of one or more amino acid residues compared to the wild-type sequence. Analogs encompass allelic and polymorphic variants, and also muteins and fusion proteins that comprise all or a significant part of such GPCR, *e.g.*, covalently linked via side-chain group or terminal residue to a different protein, polypeptide, or moiety (fusion partner). Variants of a particular GPCR protein refer to an amino acid sequence that is altered by one or more amino acids, for example by one or more amino acid substitution, insertion, deletion or modification, or proteins with or without associated native-pattern glycosylation. The variant may have "conservative" changes. Such "conservative" changes generally are well known in the art and readily determinable for a particular GPCR in view of the present application. Conservative changes include, for example, substitutions where a substituted amino acid has similar structural or chemical

properties to the amino acid it replaced (e.g., negatively charged amino acids include aspartic acid and glutamic acid; positively charged amino acids include lysine, arginine, histidine, asparagine, and glutamine; amino acids containing sulfur include methionine and cysteine; polar hydroxy amino acids include serine, threonine, and tyrosine; large hydrophobic amino acids include phenylalanine and tryptophan; small hydrophobic amino acids include alanine, leucine, isoleucine, and valine). A variant may also have "nonconservative" changes which means that the replacement amino acid provides some substantial change in the amino sequence.

[46] A variant preferably retains at least about 90% identity, and more preferably at least about 95% identity. Within certain embodiments, such variants contain alterations such that the ability of the variant to induce an immunogenic response is not substantially eliminated; in some embodiments the ability to an immunogenic response is not substantially diminished. Modifications of amino acid residues may include but are not limited to aliphatic esters or amides of the carboxyl terminus or of residues containing carboxyl side chains, O-acyl derivatives of hydroxyl group-containing residues, and N-acyl derivatives of the amino-terminal amino acid or amino-group containing residues, e.g., lysine or arginine. Guidance in determining which and how many amino acid residues may be substituted, inserted, deleted or modified without diminishing immunological or biological activity may be found in view of the present application using any of a variety of methods and computer programs known in the art, for example, DNASTAR software. Properties of a variant may generally be evaluated by assaying the reactivity of the variant with, for example, antibodies as described herein or evaluating a biological activity characteristic of the native protein as described herein or as known in the art in view of the present application. Certain polynucleotide variants are capable of hybridizing under appropriately stringent conditions to a naturally occurring DNA sequence encoding a particular GPCR protein (or a complementary sequence). Such hybridizing nucleic acid sequences are also within the scope of this invention.

[47] "Antagonist" refers to a molecule which interacts with a particular GPCR, for example by binding to the particular GPCR, and prevents, inactivates, decreases or shortens the amount or the duration of the effect of the biological activity of the GPCR. Antagonists include proteins, nucleic acids, carbohydrates, antibodies, or any other molecules that so affect the GPCR. Antagonists can be identified, for example, using appropriate screens

corresponding to those described for agonists above and elsewhere herein or as would be apparent to those skilled in the art in view of the present application.

[48] "Antibody" indicates one type of binding partner, typically encoded by an immunoglobulin gene or immunoglobulin genes, and refers to, for example, intact
5 monoclonal antibodies (including agonist and antagonist antibodies), polyclonal antibodies, phage display antibodies, and multispecific antibodies (*e.g.*, bispecific antibodies) formed, for example, from at least two intact antibodies. Antibody also refers to fragments thereof, which comprise a portion of an intact antibody, generally the antigen-binding or variable region of the intact antibody that are capable of binding the epitopic determinant. Examples
10 of antibody fragments include Fab, Fab', F(ab')₂, and Fv fragments, diabodies, linear antibodies, single-chain antibody molecules, and multispecific antibodies formed from antibody fragments. *See* US Patent No. 6,214,984. Antibody fragments may be synthesized by digestion of an intact antibody or synthesized *de novo* either chemically or utilizing recombinant DNA technology. Antibodies according to the present invention have at least
15 one of adequate specificity, affinity and capacity to perform the activities desired for the antibodies. Antibodies can, for example, be monoclonal, polyclonal, or combinatorial. Antibodies that bind GPCR polypeptides can be prepared using intact polypeptides or using fragments containing small peptides of interest as the immunizing antigen. The polypeptide or oligopeptide used to immunize an animal (*e.g.*, a mouse, a rat, or a rabbit) can be derived
20 from the translation of RNA, or synthesized chemically, and can be conjugated to a carrier protein if desired. Commonly used carriers that are chemically coupled to peptides include bovine serum albumin, thyroglobulin, and keyhole limpet hemocyanin (KLH). The coupled peptide is then used to immunize the animal.

[49] "Antigenic determinant" refers to the antigen recognition site on an antigen (*i.e.*,
25 epitope). Such antigenic determinant may also be immunogenic.

[50] "Antisense" refers to any composition containing a nucleic acid sequence that is complementary to a specific nucleic acid sequence. "Antisense strand" refers to a nucleic acid strand that is complementary to the "sense" strand. Antisense molecules may be produced by any method including transcription or synthesis including synthesis by ligating
30 the gene(s) of interest in a reverse orientation to a desired promoter that permits the synthesis of a complementary strand. Once introduced into a cell, the complementary nucleotides can combine with natural sequences produced by the cell to form duplexes and to block either

transcription or translation. The designation "negative" can refer to the antisense strand, and the designation "positive" can refer to the sense strand.

[51] "Biologically active" or "biologically functional," when referring to an antigenic peptide, indicates that the antigenic peptide induces an immunogenic response specific for the antigenic peptide and thus for the GPCR from which it was obtained. A variant, fragment, etc., of an antigenic peptide is "biologically active" or "biologically functional" if the ability to induce the specific immunogenic response is not substantially diminished. The term "not substantially diminished" means retaining a functionality that is at least about 90% of the functionality of the native antigenic peptide. Appropriate assays designed to evaluate such functionality may be designed based on existing assays known in the art in view of the present application, or on the representative assays provided herein.

[52] "Annotation" refers to the provision of helpful or identifying information about a GPCR or other open reading frame (ORF), such as locus name, key words, and Medline references.

[53] "BLAST" refers to the Basic Local Alignment Search Tool, which is a technique for detecting ungapped sub-sequences that match a given query sequence. BLAST can be used as a preliminary step for detecting ORF boundaries.

[54] "BLASTP" refers to a BLAST program that compares an amino acid query sequence against a protein sequence database.

[55] "BLASTX" refers to a BLAST program that compares the six-frame conceptual translation products of a nucleotide query sequence (both strands) against a protein sequence database. BLASTX can be used to create a sub-database of ORFs which may exist on a contig, and to identify the best match between one of these ORFs and a sequence in an external database.

[56] "Buffer" refers to a component in a solution to provide a buffered solution that resists changes in pH by the action of its acid-base conjugate components.

[57] "CDS" refers to the GenBank DNA sequence entry for coding sequence. A coding sequence is a sub-sequence of a DNA sequence that is surmised to encode a gene. A complete gene coding sequence begins with an "ATG" and ends with a stop codon.

[58] "Clone" in molecular biology refers to a vector carrying an insert DNA sequence.

[59] "Cloning" in molecular biology refers to a recombinant DNA technique used to produce multiple, up to millions or more, copies of a DNA sequence. The DNA sequence is

inserted into a small carrier or vector (*e.g.*, plasmid, bacteriophage, or virus) and inserted into a host cell for amplification or expression.

[60] "Cluster" refers to a group of ORFs related to one another by sequence homology. Clusters are generally determined by a specified degree of homology and overlap (*e.g.*, a stringency).

[61] "Comparison window" indicates a segment of any one of the number of contiguous positions selected from the group consisting of from 20 to 600, usually about 50 to about 200, more usually about 100 to about 150 in which a sequence may be compared to a reference sequence of the same number of contiguous positions after the two sequences are aligned to enhance sequence similarity. Methods of alignment of sequences for comparison will be readily apparent to a person of ordinary skill in the art in view of the present application.

[62] "Complementary" or "complementarity" refers to the natural binding of polynucleotides by base pairing. For example, the sequence "A-G-T" binds to the complementary sequence "T-C-A." Complementarity between two single-stranded molecules may be "partial," such that only some of the nucleic acids bind, or it may be "complete," such that all of the nucleotides of at least one of the single-stranded molecules binds to corresponding nucleotides of the other single-stranded molecule. The degree of complementarity between nucleic acid strands has significant effects on the efficiency and strength of the hybridization between the nucleic acid strands. This can be of particular importance in amplification reactions, which can depend upon binding between nucleic acids strands, and in the design and use of peptide nucleic acid (PNA) molecules.

[63] "Complex," or "aggregate," indicates a dimer or multimer formed between at least two proteins or other macromolecules, for example a GPCR and its ligand.

[64] "Composition" indicates a combination of multiple substances into a mixture.

[65] "Composition comprising a given amino acid sequence" refers broadly to any composition containing the given amino acid sequence. The composition may comprise a dry formulation, an aqueous solution, or a sterile composition.

[66] "Consensus sequence" refers to the sequence that reflects the most common choice of base or amino acid at each position from a series of related DNA, RNA, or protein sequences. Areas of particularly good agreement often represent conserved functional domains. The generation of consensus sequences has typically been subjected to intensive mathematical analysis.

- [67] "Conservative changes" to an amino acid sequence, see Analog.
- [68] "Deletion" refers to a change in the amino acid or nucleotide sequence that results in the absence of one or more amino acid residues or nucleotides.
- [69] "Derivative" refers to chemical modification of an antigenic peptide, or of an antibody specific for and created from the antigenic peptide. A derivative peptide can be modified, for example, by glycosylation or pegylation.
- [70] "Diabodies" refers to one type of antibody comprising small antibody fragments with two antigen-binding sites, which fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) on the same polypeptide chain (V_H - V_L). By using a linker that is too short to allow pairing between the two domains on the same chain, the domains pair with the complementary domains of another chain and create two antigen-binding sites. Diabodies are described, for example, in EP 404,097; WO 93/11161; and Holliger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993).
- [71] "Database" refers to a structured format for organizing and maintaining information or data, a collection of data records, in a computer-readable form that can be rapidly and easily retrieved. A database is typically stored in a computer-readable memory. Records may comprise web pages, graphics, audio files, text files, or links. Records may or may not be further broken into fields. Database records are usually indexed and come with a search interface to find records of interest.
- [72] "E-value" refers to a result of a FASTA analysis. The number indicates the probability that a match between two sequences is due to random chance.
- [73] "Expression vector" is a specialized vector constructed so that the gene inserted in the vector can be expressed in the cytoplasm of a host cell.
- [74] "FASTA" refers to a modular set of sequence comparison programs used to compare an amino acid or DNA sequence against all entries in a sequence database. FASTA was written by Professor William Pearson of the University of Virginia Department of Biochemistry. The program uses the rapid sequence algorithm described by Lipman and Pearson (1988) and the Smith-Waterman sequence alignment protocol. FASTA performs a protein to protein comparison.
- [75] "FASTX" refers to a module of the FASTA protocol used to define optimal ORF boundaries while searching for genes. FASTX uses a nucleotide to protein sequence comparison.

[76] "Fragment," see Portion.

[77] "GenBank" refers to a family of public databases comprising nucleic acid and amino acid sequence information, including the GenPept bacterial peptide database.

[78] "Gene" refers to the basic unit of heredity that carries the genetic information for a given RNA or protein molecule. A gene is composed of a contiguous stretch of DNA and contains a coding region that is flanked on each end by regions that are transcribed but not translated. A gene is a segment of DNA involved in producing a biologically active or biologically functional polypeptide chain.

[79] "Heterologous" indicates a nucleic acid that comprises two or more subsequences that are not found in the same relationship to each other in nature. For instance, the nucleic acid is typically recombinantly produced, having two or more sequences from unrelated genes arranged to make a new functional nucleic acid, *e.g.*, a promoter from one source and a coding region from another source. Similarly, a heterologous protein indicates that the protein comprises two or more subsequences that are not found in the same relationship to each other in nature (*e.g.*, a fusion protein).

[80] "Hit Threshold" refers to a pre-set E-value or P-value for evaluating sequence matches. For example, this value can be set at $1e-6$ for finding genes; and at $1e-15$ for clustering genes.

[81] "Homology" refers to a degree of complementarity. There may be partial homology or complete homology. The word "identity" may substitute for the word "homology." A partially complementary sequence that at least partially, and substantially, inhibits a corresponding sequence from hybridizing to a target nucleic acid is referred to as "substantially homologous." The inhibition of hybridization of the completely complementary sequence to the target sequence may be examined using a hybridization assay (*e.g.*, Southern or Northern blot, *in situ* hybridization, solution hybridization) under conditions of reduced stringency. A substantially homologous sequence or hybridization probe will compete for and inhibit the binding of a completely homologous sequence to the target sequence under stringency conditions that inhibit non-specific binding but permit specific binding. The absence of non-specific binding may be tested by the use of a second target sequence which lacks even a partial degree of complementarity (*e.g.*, less than about 30% homology or identity). In the absence of non-specific binding, the substantially

homologous sequence or probe will not hybridize to the second, non-complementary target sequence.

[82] **"Humanized antibody"** refers to antibody molecules in which the amino acid sequence in the non-antigen-binding regions has been altered so that the antibody more closely resembles a human antibody, and still retains its original binding ability. Typically, humanized antibodies are human immunoglobulins (recipient antibody) in which residues from a complementarity-determining region (CDR) of the recipient are replaced by residues from a CDR of a non-human species (donor antibody) such as mouse, rat or rabbit having the desired specificity, affinity, and capacity. In some instances, Fv framework residues of the human immunoglobulin are replaced by corresponding non-human residues. Furthermore, humanized antibodies may comprise residues that are found neither in the recipient antibody nor in the imported CDR or framework sequences. These modifications are typically made to further refine and optimize antibody performance. In general, the humanized antibody will comprise substantially all of at least one, and typically two, variable domains, in which all or substantially all of the CDR regions correspond to those of a non-human immunoglobulin and all or substantially all of the framework (FR) regions are those of a human immunoglobulin sequence. The humanized antibody optimally also will comprise at least a portion of an immunoglobulin constant region (Fc), typically that of a human immunoglobulin. For further details see, *e.g.*, Jones et al., *Nature*, 321:522-525 (1986); Reichmann et al., *Nature*, 332:323-329 (1988); and, Presta, *Curr. Op. Struct. Biol.*, 2:593-596 (1992).

[83] **"Identity,"** see Homology.

[84] **"Immunocytochemistry"** refers to the use of immunologic methods, including a specific antibody, to study cell constituents.

25 [85] **"Immunohistochemistry"** refers to the use of immunologic methods, including a specific antibody, to study specific antigens in tissue slices.

[86] **"Immunolocalization"** refers to the use of immunologic methods, including a specific antibody, to locate molecules or structures within cells or tissues.

[87] **"Immunologically active"** refers to the capability of a natural, recombinant, or synthetic GPCR, or any immunogenic fragment thereof, to induce a specific immune response in appropriate animals or cells and to bind with specific antibodies. A polypeptide is "immunologically active" if it is recognized by (*e.g.*, specifically bound by) a B-cell or T-

cell surface antigen receptor. Immunological activity may generally be assessed using well known techniques, such as those summarized in Paul, Fundamental Immunology, 3rd ed., 243-247, Raven Press (1993) and references cited therein. Such techniques include screening polypeptides derived from the native polypeptide for the ability to react with antigen-specific antisera or T-cell lines or clones, which may be prepared in view of the present application using well known techniques. Preferably, an immunologically active portion of a GPCR protein reacts with such antisera or T-cells at a level that is not substantially lower than the reactivity of the full-length polypeptide (e.g., in an ELISA or T-cell reactivity assay). Such screens may generally be performed using methods well known to those of ordinary skill in the art in view of the present application, such as those described in Harlow and Lane, Antibodies: A Laboratory Manual, Cold Spring Harbor Press (1988). B-cell and T-cell epitopes may also be predicted via computer analysis.

[88] "Immune response" refers to any of the body's immunologic reactions to an antigen such as antibody formation, cellular immunity, hypersensitivity, or immunological tolerance.

[89] "Insertion" and "addition" when referring to a change in a nucleotide or amino sequence indicate the addition of one or more nucleotides or amino acid residues, respectively, to the sequence.

[90] "*In situ* hybridization" refers to use of a nucleic acid probe, typically a DNA or RNA probe, to detect the presence of a DNA or RNA sequence in target cells such as cloned bacterial cells, cultured eukaryotic cells, or tissue samples. *In situ* hybridization can also be used for locating genes on chromosomes. The process can be performed by preparing a microscope slide with cells in metaphase of mitosis, then treating slide with a weak base to denature the DNA. Next, pour radioactively labeled probe onto the slide under hybridizing conditions, expose the slide to a photographic emulsion for a suitable period such as a few days or weeks, then develop the emulsion.

[91] "Isoform" refers to different forms of a protein that may be produced from different genes or from the same gene by alternative RNA splicing.

[92] "Isolated" generally means that the material is removed from its original environment (e.g., the natural environment if it is naturally occurring).

[93] "Library" refers physically to a pool of nucleic acid fragments that has been propagated in a cloning vector. Library can also refer to an electronic collection of genomic

or proteomic sequence data, including raw sequences, contigs, ORFs and loci from a specific organism.

[94] "Ligand" refers to an ion or molecule that binds with another molecule, such as a GPCR, to form a macromolecule such as a receptor-ligand complex. An "endogenous
5 ligand" refers to a native ligand that binds to the receptor of the GPCR and modulates biological activity or functionality of the GPCR in its native environment. A "specific ligand" is a ligand able to bind to a particular GPCR and modulate the biological activity or functionality of the particular GPCR; an endogenous ligand is one example of a specific ligand.

10 [95] "Microarray" refers to an array of distinct nucleic acid or amino acid molecules arrayed on a substrate, such as paper, nylon or any other type of membrane, filter, chip, glass slide, or any other suitable solid support. Microarrays can also refer to tissue microarrays, composed of small tissue pieces arranged on a slide. U.S. Pat. No. 5,143,854 and PCT Patent Publication Nos. WO 90/15070 and 92/10092.

15 [96] "Mimetic" refers to a molecule, *e.g.*, a peptide or non-peptide agent, such as a small molecule, that is able to perform the same biological activity as a certain biologically active agent. For example, some mimetics are molecules comprising the same biological function or activity as the particular GPCR. The structure of the mimetic can be developed from knowledge of the structure of the particular GPCR or portions thereof. For appropriate
20 mimetics, the mimetic is able to effect some or all of the actions of a given antigenic peptide or antibodies against the antigenic peptide. Such mimetics can be made, in view of the present application, using techniques well known in the art, *see, e.g.*, U.S. Patent Nos. 6,197,752; 6,093,697; 6,207,643; 5,849,323, and can be included in the various processes, methods, and systems, *etc.*, described herein, such as databases, binding partner assays,
25 probes, medicaments, and therapeutics.

[97] "Modulate" refers to controllably changing the activity of a substance or other item, such as the biological activity of a GPCR, antigenic peptide or corresponding antibody. For example, modulation may cause an increase or a decrease in protein activity, binding characteristics, or other biological, functional, or immunological properties of the GPCR.

30 [98] "Monoclonal antibody" refers to an antibody obtained from a population of substantially homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are identical except for possible naturally occurring mutations that may be present

in minor amounts. Monoclonal antibodies include "chimeric" antibodies (immunoglobulins) in which a portion of the heavy or light chain is identical with or homologous to corresponding sequences in antibodies derived from a particular species or belonging to a particular antibody class or subclass, while the remainder of the chain(s) is identical with or homologous to corresponding sequences in antibodies derived from another species or belonging to another antibody class or subclass, as well as fragments of such antibodies, so long as they exhibit the desired biological activity. U.S. Pat. No. 4,816,567; Morrison et al., P.N.A.S. USA, 81:6851-6855 (1984). Monoclonal antibodies are highly specific, being directed against a single antigenic site. As a matter of distinction, polyclonal antibody preparations typically include different antibodies directed against different determinants (epitopes) of a target antigen whereas each monoclonal antibody is directed against a single determinant on the antigen. Monoclonal antibodies can be synthesized by hybridoma culture, uncontaminated by other immunoglobulins. For example, the monoclonal antibodies to be used in accordance with the present invention may be made by the hybridoma method first described by Kohler and Milstein, Nature, 256:495 (1975), or may be made by recombinant DNA methods. See, e.g., U.S. Pat. No. 4,816,567. Monoclonal antibodies may also be isolated from phage antibody libraries using the techniques described in Clackson et al., Nature, 352:624-628 (1991), and Marks et al., J. Mol. Biol., 222:581-597 (1991), for example. The modifier "monoclonal" indicates the character of the antibody as being obtained from a substantially homogeneous population of antibodies, and is not to be construed as requiring production of the antibody by any particular method.

[99] "Nonconservative" changes to an amino acid sequence, see Analog.

[100] "Northern blotting" or "Northern analysis" refers to a method used to detect specific RNA sequences. For example, the process can be performed by electrophoresing RNA in a denaturing agarose gel, transferring the gel onto a membrane, and hybridizing with a labeled RNA or DNA probe.

[101] "Nucleic acid sequence" refers to a polymer comprising a string of "nucleic acids" such as an oligonucleotide, or a polynucleotide or fragment thereof. The nucleic acid sequence can be from DNA or RNA of genomic or synthetic origin, may be single-stranded or double-stranded, and may represent the sense or the antisense strand. A nucleic acid sequence can also be a PNA or a DNA-like or RNA-like material. Unless stated otherwise,

the term encompasses nucleic acids containing known analogues or mimetics of natural nucleotides that have similar binding properties as the reference nucleic acid.

[102] "Oligonucleotide" refers to a nucleic acid sequence, generally between 6 nucleotides to 60 nucleotides, preferably about 15 to 30 nucleotides, and most preferably
5 about 20 to 25 nucleotides, that can, for example, be used in PCR or other nucleic acid amplification or in a hybridization assay or microarray. "Oligonucleotide" includes "amplimers," "primers," "oligomers," and "probes," as these terms are commonly defined in the art. Oligonucleotides can be chemically synthesized. Such synthetic oligonucleotides may have no 5' phosphate and if so will not ligate to another oligonucleotide without adding a
10 phosphate, typically by using an ATP in the presence of a kinase. A synthetic oligonucleotide will ligate to a fragment that has not been dephosphorylated.

[103] "Operably linked" or "operably connected" indicates that one element of an apparatus, system, or method, etc., is connected to another element of the apparatus, system, or method, etc., such that the two elements are able to perform their intended purposes. For
15 example, when a promoter is linked to a polynucleotide to allow transcription of the polynucleotide, it is "operably linked" to the polynucleotide.

[104] "Orphan receptor" refers to a receptor for which the endogenous ligand or other ligands inducing biological activity are not known.

[105] "PCR" or "polymerase chain reaction" refers to an *in vitro* method that uses
20 oligonucleotide primers, enzymes, and a series of repetitive temperature cycles to generate millions of copies of a nucleic acid, typically DNA, from an original specimen of a specific DNA sequence, which specimen may be present only in a trace amount.

[106] "Plasmids" refers to extrachromosomal genetic elements composed of DNA or RNA found in both eukaryotic and prokaryotic cells that can propagate themselves
25 autonomously in cells. Plasmids can be used as carriers or vectors to clone DNA molecules. They are designated by a lower case p preceded or followed by capital letters or numbers. The starting plasmids herein are either commercially available, publicly available on an unrestricted basis, or can be constructed from available plasmids in accord with published procedures. In addition, equivalent plasmids to those described are known in the art and will
30 be apparent to the ordinarily skilled artisan in view of the present application.

[107] "Polynucleotide encoding a polypeptide" indicates a polynucleotide that includes only the coding sequence for the polypeptide as well as polynucleotides that include additional coding or non-coding sequence.

[108] "Portion" or "fragment" with regard to a protein (as in "a portion of a given protein") refers to parts of that protein, a subsequence of the complete amino acid sequence of the receptor containing at least about 8, usually at least about 12, more typically at least about 20, and commonly at least about 30 or more contiguous amino acid residues, up to the entire amino acid sequence minus one amino acid. Thus, a protein "comprising at least a portion of the amino acid sequence of SEQ ID NO:XX" or a protein "comprising at least a portion of the amino acid sequence of a particular GPCR" encompasses the full-length protein and fragments thereof. A portion or fragment of a nucleic acid refers to nucleic acid sequences that are greater than about 12 nucleotides in length, and typically at least about 60 or 100 nucleotides, generally at least about 1000 nucleotides, or at least about 10,000 nucleotides in length, up to the entire nucleic acid sequence minus one nucleic acid.

[109] "P-value" is a statistical term used to indicate the probability that an event is due to random chance. When used in reference to a result of BLAST searches, the number indicates the probability that a match between two sequences is due to random chance.

[110] "Receptor" refers to a molecular structure, typically within a cell or on a cell surface, that selectively binds a specific substance (a ligand) and a specific physiologic effect that accompanies the binding. GPCRs are a type of cell-surface receptor, which means a protein in, on, or traversing the cell membrane (in the case of GPCRs, traversing the cell membrane) that recognizes and binds to specific molecules in the surrounding fluid. The binding to a receptor may serve to transport molecules into the cell's interior or to signal the cell to respond in some way.

[111] "Recombinant" refers to both a method of production and a structure. Some recombinant nucleic acids and proteins are made by the use of recombinant DNA techniques that involve human intervention, either in manipulation or selection. Others are made by fusing two fragments that are not naturally contiguous to each other. Engineered vectors are encompassed, as well as nucleic acids comprising sequences derived using any synthetic oligonucleotide process.

[112] "Sample" is used in its usual broad sense. For example, a biological sample suspected of containing nucleic acids encoding the GPCR, or fragments thereof, or the GPCR

itself, may comprise a bodily fluid; an extract from a cell, chromosome, organelle, or membrane from a cell; a cell; genomic DNA, RNA, or cDNA (in solution or bound to a solid support); a tissue; a tissue print, and the like. Biological sample refers to samples from a healthy individual as well as to samples from a subject suspected of having or susceptible to having, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

[113] "Second messengers" refer to intracellular signaling molecules such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . Second messengers, in turn, alter the

activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to the transduction and amplification of the original extracellular signal.

[114] "Southern blotting" refers to a method for detecting specific DNA sequences via hybridization. For example, a DNA sample can be electrophoresed in a denaturing agarose gel, transferred onto a membrane, and hybridized with a complementary nucleic acid probe. "Southern" when used in reference to a database indicates an electronic analog of the laboratory technique, which analysis can be used to identify libraries in which a given DNA sequence, such as a gene, EST, or ORF is present. The terms "Northern" and "Western" likewise can be used for electronic analogs to the respective laboratory techniques described above.

[115] "Specific binding" or "specifically binding" refers to an interaction between protein or peptide and a certain substance, such as its specific ligand or antibody, and in some cases its agonists or antagonists. The interaction is dependent upon the presence of a particular structure of the protein recognized by the binding molecule (e.g., the antigenic determinant or epitope). For example, if an antibody specifically binds epitope "A," the presence of a polypeptide containing epitope A or the presence of free unlabeled epitope A will reduce the amount of labeled epitope A that binds to the antibody in a reaction containing free labeled epitope A and the antibody. Conversely, the presence of a polypeptide that does not contain epitope A will not reduce the amount of labeled epitope A that binds to the antibody. Highly specific binding indicates that the protein or peptide binds to its particular ligand, antibody, etc., and does not bind in a significant amount to other proteins present in the sample. Typically, a specific or selective reaction will be at least twice the background signal or noise and more typically more than 10 to 100 times the background signal or noise.

[116] "Stringent conditions" refer to conditions that permit hybridization between complementary polynucleotide sequences. Suitably stringent conditions can be defined by, for example, the concentrations of salt or formamide in the prehybridization and hybridization solutions, or by the hybridization temperature. Stringency can be increased by reducing the concentration of salt, increasing the concentration of formamide, or raising the hybridization temperature. Stringent conditions are dependent upon the type of probe as well as the length of the probe and the GC content of the probe. "Stringent conditions" typically

occur within a range from about $T_m - 5^\circ\text{C}$ (5°C below the melting temperature (T_m) of the probe) to about $T_m - 20 - 25^\circ\text{C}$ for a cRNA probe and to about $T_m - 15^\circ\text{C}$ for an oligonucleotide probe. **"Highly stringent conditions"** refers to conditions under which a probe will hybridize to its target sequence, typically in a complex mixture of nucleic acid sequences, but will not substantially hybridize to other sequences. One example of high stringency conditions for a cRNA probe that is 1,000 nucleotides in length and has a GC content of about 60% is about $55 - 65^\circ\text{C}$ in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA. One example of low stringency conditions for the same probe in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA would be $30 - 35^\circ\text{C}$. **"Very highly stringent conditions"** indicates that there must be complete identity between the sequences. The temperature range corresponding to a particular level of stringency can be narrowed further by calculating the purine to pyrimidine ratio of the nucleic acid of interest and adjusting the temperature accordingly. Variations on and modifications of the above ranges and conditions will be readily appreciated by those of skill in the art in view of the present application. As will be understood by those of skill in the art in view of the present application, the stringency of hybridization can be altered to identify or detect identical or related polynucleotide sequences. One guide for nucleic acid hybridization is Tijssen, Laboratory Techniques in Biochemistry and Molecular Biology-v.24 Hybridization with Nucleic Acid Probes, Part I "Overview of principles of hybridization and the strategy of nucleic acid assays" (New York: Elsevier 1993).

[117] **"Substantially purified"** refers to nucleic acid or amino acid sequences that are removed from their natural environment and are separated from other components from such natural environment, and are at least about 60% free, preferably about 75% or 85% free, and most preferably about 90%, 95% or 99% free from such other components with which they are naturally associated. Substantially purified preferably indicates a substantially homogeneous state and can be in either a dry or aqueous solution or other composition as desired. Purity and homogeneity can be assayed by standard methods, for example on a mass or molar basis, using analytical chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography.

[118] "Substitution" when referring to a change in a nucleotide or amino sequence indicates the replacement of one or more nucleotides or amino acids by different nucleotides or amino acids, respectively.

[119] "Variant," see Analog.

5 [120] "Western blotting" or "Western analysis" refers to a method for detecting specific protein sequences. For example, the process can be performed by electrophoresing a protein mixture in a denaturing agarose or acrylamide gel, transferring the mixture onto a membrane, and incubating it with an antibody raised against the protein of interest.

[121] Other terms and phrases are defined in other portions of this application.

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C. SELECTION OF DESIRED ANTIGENIC PEPTIDES FOR GPCRs AND OTHER POLYPEPTIDES

[122] The present invention provides improved antigenic peptides, for example as set forth in Figure 2, SEQ ID NOS. 692-2292, and improved methods of identifying such
15 antigenic peptides from known or publicly available sequences of polypeptides or proteins, i.e., from a candidate polypeptide sequence. Polypeptide and protein are used in their traditional sense to indicate lengthy amino acid molecules, whereas the antigenic peptide has a length significantly less than the length of the corresponding polypeptide or protein such that the antigenic peptide is capable of providing significantly improved antigenicity relative
20 to the corresponding polypeptide or protein, typically improved specificity, affinity or avidity. The candidate polypeptide can be, for example, a human protein or polypeptide, a naturally occurring protein or polypeptide or a synthetic or recombinant protein or polypeptide.

[123] The antigenic peptides are typically 5 to about 100 amino acids in length, preferably
25 6 to about 50 amino acids, and further preferably 7 to about 20 amino acids. The antigenic peptides include short antigenic amino acid sequences (i.e., peptides comprising only a portion of an antigenic sequence as set forth in Figure 2 or as identified using the methods described herein, plus an insignificant number of additional amino acids at one or both ends, where insignificant indicates that the extra amino acids do not substantially interfere with the
30 antigenicity of the antigenic peptide). Such short antigenic peptides can be identical to at least 5, 6, 7 or more consecutive amino acids of the sequences herein or identified using the methods described herein, or can have one or two (or more, with increasing length)

conservative amino acid substitution for antigenic peptides comprising more than 6 or 7 consecutive amino acids of the sequences herein or identified using the methods described herein. Antigenic peptides and sequences, and related antibodies and assays and the like, are discussed further elsewhere herein with regard to GPCRs, but such discussions applies to all
5 antigenic peptides produced according to the methods herein, including proteins and polypeptides such as kinases, phosphatases and any other desired protein or polypeptide.

[124] The identification or selection methods comprise searching the candidate polypeptide sequence using a comparison window of the desired length, then selecting against or rejecting amino acid sequences of the length and having at least 1 characteristic
10 selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, at least 5, 7, 8, or all of the characteristics are selected.

15 [125] The identification or selection methods can also comprise selecting against amino acid sequences having at least 5 consecutive amino acids that are identical to an alternative amino acid sequence from an alternative polypeptide, i.e., some polypeptide other than the candidate polypeptide from which the selected antigen was derived, that is different from the candidate polypeptide, posttranslational modification sites, or highly hydrophobic sequences,
20 which indicates sequences adequately hydrophobic to be located in a lipid membrane such as a cellular membrane. The posttranslational modification sites can be phosphorylation or glycosylation sites.

[126] The methods can further comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence. Exemplary BLAST-type and FAST-type
25 analyses are described above, including BLAST, BLASTP, BLASTX, FASTA, and FASTX.

D. GENERAL DISCUSSION OF ANTIGENIC PEPTIDES RELATED TO PARTICULAR GPCRS

[127] ANTIGENIC PEPTIDES GENERALLY:

30 [128] The present invention includes antigenic peptides able to induce specific immunogenic responses, and corresponding binding partners. Such antigenic peptides and

binding partners can be cloned, expressed, isolated, purified, and otherwise obtained or manipulated according to routine methods known in the art in view of the present application.

[129] The present invention further relates to antigenic peptides having an amino acid sequence from a particular GPCR, including analogs, mimetics, fragments, derivatives, and the like of such antigenic peptides. See SEQ ID NOS. 1-2292, Figures 1-3. The antigenic peptides may be recombinant, natural or synthetic. The antigenic peptides include (i) antigenic peptides in which one or more of the amino acid residues are substituted with a conserved or non-conserved amino acid residue (preferably a conserved amino acid residue) and such substituted amino acid residue may or may not be one encoded by the genetic code, (ii) antigenic peptides in which one or more of the amino acid residues includes a substituent group, (iii) antigenic peptides in which the mature polypeptide is complexed (*e.g.*, fused or otherwise bonded) with another compound, such as a compound to increase the half-life of the polypeptide (for example, polyethylene glycol), and (iv) antigenic peptides in which additional amino acids are fused to the antigenic peptide. Preparing and using such analogs, etc., are within the scope of those skilled in the art in view of the present application. The antigenic peptides additionally include antigenic peptides that have at least about 90% identity to the given antigenic peptide, and preferably at least about 95% identity to the antigenic peptide. The antigenic peptides additionally include antigenic peptides that contain at least five, six, seven or more consecutive amino acids that are identical to the given antigenic peptide, as well as antigenic peptides that contain at least six, seven, eight or more consecutive amino acids that are identical to the given antigenic except for one or two conservative changes within this such stretch of amino acids. The antigenic peptides of the present invention can be produced by peptide synthesis.

[130] EXPRESSION PROFILES BASED ON PROTEINS:

[131] An expression profile of a particular GPCR in one or more tissues can be made using antibodies or other binding partners produced using the antigenic peptides herein, then using traditional approaches such as Western blotting, immunohistochemistry analysis, protein array, ligand-binding studies, radioimmunoassay (RIA), and high performance liquid chromatography (HPLC), and immunohistochemistry analysis. H&E staining and other analyses can be used in combination with such immunologically-based analyses.

[132] SCREENING FOR ACTIVITY:

[133] The activity or functionality of an antigenic peptide can be measured using any of a variety of assays known in the art. Similarly, the specificity or affinity of an antibody or other binding partner made using the antigenic peptide can be measured using any of a variety of assays known in the art

- 5 [134] The activity or functionality of a particular GPCR may be measured using any of a variety of functional assays in which activation of the receptor in question results in an observable change in the level of some second messenger system, including but not limited to adenylyl cyclase, calcium mobilization, arachidonic acid release, ion channel activity, inositol phospholipid hydrolysis, or guanylyl cyclase. Heterologous expression systems utilizing appropriate host cells to express the nucleic acid of the subject invention are used to obtain the desired second messenger coupling. Receptor activity may also be assayed in an oocyte expression system.

[135] PROTEIN PURIFICATION:

- 15 [136] The antigenic peptides and proteins or polypeptides containing them can be purified by standard methods, including but not limited to salt or alcohol precipitation, preparative disc-gel electrophoresis, isoelectric focusing, high pressure liquid chromatography (HPLC), reversed-phase HPLC, gel filtration, cation and anion exchange, partition chromatography, and countercurrent distribution. Suitable purification methods will be readily apparent to those skilled in the art in view of the present application and are disclosed, *e.g.*, in Guide to Protein Purification, Methods in Enzymology, Vol. 182, M. Deutscher, Ed., Academic Press, New York, NY (1990). Purification steps can be followed as part of carrying out assays for ligand binding activity. Particularly where a particular GPCR is being isolated from a cellular or tissue source, it is preferable to include one or more inhibitors of proteolytic enzymes in the assay system, such as phenylmethylsulfonyl fluoride (PMSF).

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E. CERTAIN ASSAYS, ANTIBODIES, PROBES, THERAPEUTICS, AND OTHER SYSTEMS AND ASPECTS, OF THE INVENTION

1. SYSTEMS AND METHODS FOR SCREENING FOR A PARTICULAR GPCR OR ANTIGENIC PEPTIDE

- 30 [137] **SCREENING FOR ANTIGENIC PEPTIDES:**

[138] As noted elsewhere herein, the present invention provides antigenic peptides and antibodies that are specific for a particular GPCR. The invention also provides systems and

methods for using or detecting such peptides, and antibodies against such peptides or corresponding GPCRs in a sample. The assays are based on the detection of the antigenic peptides, typically as they are displayed by the particular GPCR, or the detection of antibodies produced against the particular antigenic peptides and corresponding GPCRs.

5 **[139] SCREENING FOR/WITH ANTIGENIC PEPTIDES:**

[140] Many assays are characterized by the ability of antigenic peptides for a particular GPCR to be bound by antibodies against them, and the ability of antibodies produced against such antigenic peptides to bind to antigens or epitopes of the particular GPCR in a sample. Some exemplary assays are described below and elsewhere herein.

10 **[141] LIST OF ASSAYS:**

[142] A variety of assays can detect antibodies that bind specifically to the desired protein in or from a sample, or detect a desired protein bound to one or more antibodies in or from the sample. Exemplary assays are described in detail in *Antibodies: A Laboratory Manual*, Harlow and Lane (eds.), Cold Spring Harbor Laboratory Press (1988). Representative
15 examples of such assays include: countercurrent immuno-electrophoresis (CIEP), radioimmunoassays, radioimmunoprecipitations, enzyme-linked immunosorbent assays (ELISA), dot blot assays, inhibition or competition assays, sandwich assays, immunostick (dip-stick) assays, simultaneous assays, immunochromatographic assays, immunofiltration assays, latex bead agglutination assays, immunofluorescent assays, biosensor assays, and
20 low-light detection assays. *See* U.S. Pat. Nos. 4,376,110 and 4,486,530; WO 94/25597; WO/25598.

[143] ENZYME-LINKED IMMUNOSORBENT ASSAYS (ELISA):

[144] One assay for the detection of a particular GPCR is a sandwich assay such as an enzyme-linked immunosorbent assay (ELISA). In one preferred embodiment, the ELISA
25 comprises the following steps: (1) coating the particular GPCR antigenic peptide onto a solid phase, (2) incubating a sample suspected of containing anti-particular GPCR antibodies with the antigenic peptide coated onto the solid phase under conditions that allow the formation of an antigen-antibody complex, (3) adding an anti-antibody (such as anti-IgG) conjugated with a label to be captured by the resulting antigen-antibody complex bound to the solid phase,
30 and (4) measuring the captured label and determining therefrom whether the sample contains anti-particular GPCR antibodies.

[145] IMMUNOFLUORESCENCE ASSAY:

[146] A fluorescent antibody test (FA-test) uses a fluorescently labeled antibody able to bind to one of the proteins of the invention. For detection, visual determinations are made by a technician using fluorescence microscopy, yielding a qualitative result. In one embodiment, this assay is used for the examination of tissue samples or histological sections.

5 [147] **BEAD AGGLUTINATION ASSAYS:**

[148] In latex bead agglutination assays, antibodies to one or more of the antigenic peptides of the present invention are conjugated to latex beads. The antibodies conjugated to the latex beads are then contacted with a sample under conditions permitting the antibodies to bind to desired proteins in the sample, if any. The results are then read visually, yielding a
10 qualitative result. In some embodiments, as with certain other assays, this format can be used in the field for on-site testing.

[149] **ENZYME IMMUNOASSAYS:**

[150] Enzyme immunoassays (EIA) include a number of different assays that can use the antibodies described in the present application. For example, a heterogeneous indirect EIA
15 uses a solid phase coupled with an antibody of the invention and an affinity purified, anti-IgG immunoglobulin preparation. The solid phase can be a polystyrene microtiter plate. The antibodies and immunoglobulin preparation are then contacted with the sample under conditions permitting antibody binding, which conditions are well known in the art. The results of such an assay can be read visually or using a device such as a spectrophotometer,
20 such as an ELISA plate reader, to yield a quantitative result. An alternative solid phase EIA format includes plastic-coated ferrous metal beads able to be moved during the procedures of the assay by means of a magnet. Yet another alternative is a low-light detection immunoassay format. In this highly sensitive format, the light emission produced by appropriately labeled bound antibodies are quantified automatically. Preferably, the reaction
25 is performed using microtiter plates.

[151] In an alternative embodiment, a radioactive tracer is substituted for the enzyme-mediated detection in an EIA to produce a radioimmunoassay (RIA).

[152] **SANDWICH ASSAY:**

[153] In a capture-antibody sandwich enzyme assay, the desired protein is bound between
30 an antibody attached to a solid phase, preferably a polystyrene microtiter plate, and a labeled antibody. The results can be measured, for example, using a spectrophotometer, such as an ELISA plate reader.

[154] SEQUENTIAL AND SIMULTANEOUS ASSAYS:

[155] In a sequential assay format, reagents are allowed to incubate with the capture antibody in a stepwise fashion. The test sample is first incubated with the capture antibody. Following a wash step, incubation with the labeled antibody occurs. In a simultaneous assay, the two incubation periods described in the sequential assay are combined. This eliminates one incubation period plus a wash step.

[156] IMMUNOSTICK (DIP-STICK) ASSAYS:

[157] A dipstick/immunostick format is essentially an immunoassay using a polystyrene paddle or dipstick instead of a polystyrene microtiter plate as the solid phase. Reagents are the same and the format can either be simultaneous or sequential.

[158] IMMUNOCHROMATOGRAPHIC ASSAYS:

[159] In a chromatographic strip test format, a capture antibody and a labeled antibody are dried onto a chromatographic strip, which typically comprises nitrocellulose or high porosity nylon bonded to cellulose acetate. The capture antibody is usually spray dried as a line at one end of the strip. At this end, there is an absorbent material that is in contact with the strip. At the other end of the strip, the labeled antibody is deposited in a manner that prevents it from being absorbed onto the membrane. Usually, the label attached to the antibody is a latex bead or colloidal gold. The assay may be initiated by applying the sample immediately in front of the labeled antibody.

[160] IMMUNOFILTRATION ASSAYS:

[161] Immunofiltration/immunoconcentration formats combine a large solid-phase surface with directional flow of sample/reagents, which concentrates and accelerates the binding of antigen to antibody. In an exemplary format, the test sample is preincubated with a labeled antibody, and then applied to a solid phase such as fiber filters, nitrocellulose membranes, or the like. The solid phase can also be precoated with latex or glass beads coated with capture antibody. Detection of analyte is the same as that in a standard immunoassay. The flow of sample/reagents can be modulated by either vacuum or the wicking action of an underlying absorbent material.

[162] BIOSENSOR ASSAYS:

[163] A threshold biosensor assay is a sensitive, instrumented assay amenable to screening large numbers of samples at low cost. In one embodiment, such an assay comprises the use of light-addressable potentiometric sensors wherein the reaction involves

the detection of a pH change due to binding of the desired protein by capture antibodies, bridging antibodies, and urease-conjugated antibodies. Upon binding, a pH change is effected that is measurable by translation into electrical potential (μ volts). The assay typically occurs in a very small reaction volume, and is very sensitive; the reported detection
5 limit of the assay is 1,000 molecules of urease per minute.

2. ANTIBODIES

[164] ANTIBODIES GENERATED AGAINST A PARTICULAR ANTIGENIC PEPTIDE AND ITS CORRESPONDING GPCR:

10 **[165]** Highly specific, high affinity or antibodies against a particular GPCR or other polypeptide can be generated using the antigenic peptides herein and using antibody generation techniques as described herein or elsewhere. The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can selectively detect the corresponding GPCR
15 in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected. The antibodies produced using the antigenic peptides of the present invention,
20 for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[166] The antibodies can be used to conduct immunohistochemistry and other analyses of a variety of tissue samples to determine expression of a particular GPCR in such tissues, for
25 diagnostic assays, and for other desired purposes. The specification will now discuss a variety of antibody types, methods, uses, etc.

[167] ANTIBODIES GENERALLY:

[168] In some embodiments, the present invention provides antibodies and other binding partners created using the antigenic peptides herein and directed to a particular GPCR from
30 which the antigenic peptides were derived. Compositions and uses for such antibodies are contemplated, including diagnostic, medicament, and therapeutic uses. Various diagnostic, medicament, and therapeutic uses for antibodies have been reviewed above and, for example,

in Goldenberg et al., *Semin. Cancer Biol.*, 1(3):217-225 (1990); Beck et al., *Semin. Cancer Biol.*, 1(3):181-188 (1990); Niman, *Immunol. Ser.*, 53:189-204 (1990); Endo, *Nippon Igaku Hoshasen Gakkai Zasshi (Japan)*, 50(8):901-909 (1990); and, U.S. Pat. No. 6,214,984.

[169] Recognized immunoglobulin genes include the kappa, lambda, alpha, gamma, delta, epsilon, and mu constant region genes, as well as myriad immunoglobulin variable region genes. Light chains are classified as either kappa or lambda. Heavy chains are classified as gamma, mu, alpha, delta, or epsilon, which in turn define the immunoglobulin classes, IgG, IgM, IgA, IgD, and IgE, respectively. An exemplary immunoglobulin (antibody) structural unit comprises a tetramer. Each tetramer is composed of two identical pairs of antigenic peptide chains, each pair having one "light" chain (about 25 kD) and one "heavy" chain (about 50-70 kD). The N-terminus of each chain defines a variable region of about 100 to 110 or more amino acids primarily responsible for antigen recognition. The terms variable light chain (V_L) and variable heavy chain (V_H) refer to these light and heavy chains respectively.

15 [170] **ANTI-IDIOTYPIC ANTIBODIES:**

[171] The present invention encompasses anti-idiotypic antibodies, including polyclonal and monoclonal anti-idiotypic antibodies, that are produced using the antibodies described herein as antigens. These anti-idiotypic antibodies are useful because they may mimic the structures of the antigenic peptides set forth herein.

20 [172] Techniques for producing antibodies, including antibody fragments, include the following.

a. Antibody Preparation

(i) Polyclonal Antibodies

25 [173] **ANTIBODY PREP - POLYCLONAL:**

[174] Polyclonal antibodies are generally raised in animals by multiple subcutaneous (sc) or intraperitoneal (ip) injections of the relevant antigen and an adjuvant. It may be useful to conjugate the relevant antigen to a protein that is immunogenic in the species to be immunized, *e.g.*, keyhole limpet hemocyanin, serum albumin, bovine thyroglobulin, or soybean trypsin inhibitor, using a bifunctional or derivatizing agent, for example, maleimidobenzoyl sulfosuccinimide ester (conjugation through cysteine residues), N-

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hydroxysuccinimide (through lysine residues), glutaraldehyde, succinic anhydride, SOCl_2 , or $\text{R}^1\text{N}=\text{C}=\text{NR}$, where R and R^1 are different alkyl groups.

[175] ANTIBODY PREP – ADJUVANTS (ALL ABS):

[176] Suitable adjuvants for the vaccination of animals for the production of polyclonal, monoclonal, and other antibodies include but are not limited to Adjuvant 65 (containing peanut oil, mannide monooleate, and aluminum monostearate); Freund's complete or incomplete adjuvant; mineral gels such as aluminum hydroxide, aluminum phosphate, and alum; surfactants such as hexadecylamine, octadecylamine, lysolecithin, dimethyldioctadecylammonium bromide, N,N-dioctadecyl-N',N'-bis(2-hydroxymethyl) propanediamine, methoxyhexadecylglycerol, and pluronic polyols; polyanions such as pyran, dextran sulfate, poly IC, polyacrylic acid, and carbopol; peptides such as muramyl dipeptide, dimethylglycine, tuftsin, stress proteins, core-containing proteins from a positive stranded RNA virus, *see* US Pat. No. 6,153,378; and, oil emulsions. The antigenic peptides could also be administered following incorporation into liposomes or other microcarriers.

[177] Information concerning adjuvants and various aspects of immunoassays are disclosed, *e.g.*, in the series by P. Tijssen, Practice and Theory of Enzyme Immunoassays, 3rd Edition (1987), Elsevier, New York. Other useful references covering methods for preparing polyclonal antisera include Microbiology, Hoeber Medical Division, Harper and Row (1969); Landsteiner, Specificity of Serological Reactions, Dover Publications, New York (1962); and, Williams, et al., Methods in Immunology and Immunochemistry, Vol. 1, Academic Press, New York (1967).

[178] Animals can be immunized against the antigen, immunogenic conjugates, or derivatives by combining 1 mg or 1 μg of the peptide or conjugate (for rabbits or mice, respectively) with 3 volumes of Freund's complete adjuvant and injecting the solution intradermally at multiple sites. One month later the animals are boosted with 1/5 to 1/10 the original amount of peptide or conjugate in Freund's complete adjuvant by subcutaneous injection at multiple sites. Seven to 14 days later the animals are bled and the serum is assayed for antibody titer. Animals are boosted until the titer plateaus. Preferably, the animal is boosted with the conjugate of the same antigen, but conjugated to a different protein or through a different cross-linking reagent. Conjugates also can be made in recombinant cell culture as protein fusions. In addition, aggregating agents such as alum can be suitably used to enhance the immune response.

(ii) Monoclonal Antibodies

[179] ANTIBODY PREP - MONOCLONAL:

- [180]** Monoclonal antibodies are obtained from a population of substantially
5 homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are identical except for possible naturally occurring mutations that may be present in minor amounts. For example, monoclonal antibodies can be made using the hybridoma method first described by Kohler and Milstein, *Nature*, 256:495 (1975), or can be made by recombinant DNA methods, or otherwise as desired.
- 10 **[181]** In the hybridoma method, a mouse, or other appropriate host animal, such as a hamster, is immunized as described herein to elicit lymphocytes that produce or are capable of producing antibodies that will bind specifically to the antigenic peptide used for immunization. Alternatively, lymphocytes may be immunized *in vitro*. Lymphocytes then are fused with myeloma cells using a suitable fusing agent, such as polyethylene glycol, to
15 form a hybridoma cell, Goding, *Monoclonal Antibodies: Principles and Practice*, pp. 59-103, Academic Press (1986).
- [182]** The hybridoma cells thus prepared are seeded and grown in a suitable culture medium that preferably contains one or more substances that inhibit the growth or survival of the unfused, parental myeloma cells. For example, if the parental myeloma cells lack the
20 enzyme hypoxanthine guanine phosphoribosyl transferase (HGPRT or HPRT), the culture medium for the hybridomas typically will include hypoxanthine, aminopterin, and thymidine (HAT medium), which substances prevent the growth of HGPRT-deficient cells.
- [183]** Preferred myeloma cells are those that fuse efficiently, support stable high-level production of antibody by the selected antibody-producing cells, and are sensitive to a
25 medium such as HAT medium, for example murine myeloma lines, such as those derived from MOPC-21 and MPC-11 mouse tumors available from the Salk Institute Cell Distribution Center, San Diego, CA USA, and SP-2 cells available from the American Type Culture Collection, Rockville, MD USA. Human myeloma and mouse-human heteromyeloma cell lines have also been described for the production of human monoclonal
30 antibodies, Kozbor, *J. Immunol.*, 133:3001 (1984); Brodeur et al., *Monoclonal Antibody Production Techniques and Applications*, pp. 51-63, Marcel Dekker, Inc., New York (1987).

[184] Culture medium in which hybridoma cells are growing is assayed for production of monoclonal antibodies directed against the antigenic peptide. The binding specificity of monoclonal antibodies produced by hybridoma cells can be determined by immunoprecipitation or by an *in vitro* binding assay, such as radioimmunoassay (RIA) or
5 enzyme-linked immunosorbent assay (ELISA). The binding affinity of the monoclonal antibody can, for example, be determined by the Scatchard analysis of Munson and Pollard, Anal. Biochem., 107:220 (1980). The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole,
10 preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[185] After hybridoma cells are identified that produce antibodies of the desired specificity, affinity, or activity, the clones may be subcloned by limiting dilution procedures and grown by standard methods (Goding, *supra*). Suitable culture media for this purpose include, for example, D-MEM or RPMI-1640 medium. In addition, the hybridoma cells may
15 be grown *in vivo* as ascites tumors in an animal.

[186] The monoclonal antibodies secreted by the subclones are suitably separated from the culture medium, ascites fluid, or serum by conventional immunoglobulin purification procedures such as, for example, protein A-SEPHAROSE™, hydroxyapatite chromatography, gel electrophoresis, dialysis, or affinity chromatography.

20 [187] DNA encoding the monoclonal antibodies can be readily isolated and sequenced using conventional procedures (e.g., by using oligonucleotide probes that are capable of binding specifically to genes encoding the heavy and light chains of murine antibodies). The hybridoma cells serve as a preferred source of such DNA. Once isolated, the DNA may be placed into expression vectors, which can then be transfected into host cells such as *E. coli*
25 cells, simian COS cells, Chinese hamster ovary (CHO) cells, or myeloma cells that do not otherwise produce immunoglobulin protein, to obtain the synthesis of monoclonal antibodies in the recombinant host cells. Review articles on recombinant expression in bacteria of DNA encoding antibody include Skerra et al., Curr. Opinion in Immunol., 5:256-262 (1993), and Pluckthun, Immunol. Revs., 130:151-188 (1992).

30 [188] **MOABS - COMBINATORIAL:**

[189] In a further embodiment, antibodies or antibody fragments can be isolated from antibody phage libraries generated using the techniques described in McCafferty et al.,

Nature, 348:552-554 (1990), using the proper antigen such as CD11a, CD18, IgE, or HER-2 to select for a suitable antibody or antibody fragment. Clackson et al., Nature, 352:624-628 (1991) and Marks et al., J. Mol. Biol., 222:581-597 (1991) describe the isolation of murine and human antibodies, respectively, using phage libraries. Subsequent publications describe the production of high affinity (nM range) human antibodies by chain shuffling, Marks et al., Biotechnology, 10:779-783 (1992), as well as combinatorial infection and *in vivo* recombination as strategies for constructing very large phage libraries, Waterhouse et al., Nuc. Acids. Res., 21:2265-2266 (1993). Combinatorial antibodies are also discussed in Huse et al., Science 246:1275-1281 (1989), and Sastry et al., Proc. Natl. Acad. Sci. USA, 86:5728-5732 (1989), and Alting-Mees et al., Strategies in Molecular Biology 3:1-9 (1990). These references describe a system commercially available from Stratacyte, La Jolla, CA USA. Briefly, mRNA is isolated from a B cell population and utilized to create heavy and light chain immunoglobulin cDNA expression libraries in the λ IMMUNOZAP(H) and λ IMMUNOZAP(L) vectors. These vectors may be screened individually or co-expressed to form Fab fragments or antibodies, *see* Huse et al., *supra*; *see also* Sastry et al., *supra*. Positive plaques can subsequently be converted to a non-lytic plasmid, which allows for high-level expression of monoclonal antibody fragments from *E. coli*.

[190] HUMANIZED MOAB:

[191] Binding partners can also be constructed utilizing recombinant DNA techniques to incorporate the variable regions of a gene that encode a specifically binding antibody. The construction of these binding partners can be readily accomplished by one of ordinary skill in the art in view of the present application. *See* Larrick et al., Biotechnology, 7:934-938 (1989); Riechmann et al., Nature, 332:323-327 (1988); Roberts et al., Nature, 328:731-734 (1987); Verhoeyen et al., Science 239:1534-1536 (1988); Chaudhary et al., Nature, 339:394-397 (1989); *see also* U.S. Pat. No. 5,132,405 entitled "Biosynthetic Antibody Binding Sites".) For example, the DNA can be modified by substituting the coding sequence for human heavy- and light-chain constant domains in place of homologous murine sequences, U.S. Pat. No. 4,816,567; Morrison, et al., Proc. Nat. Acad. Sci., 81:6851 (1984), or by covalently joining to the immunoglobulin coding sequence all or part of the coding sequence for a non-immunoglobulin polypeptide. In another example, DNA segments encoding the desired antigen-binding domains specific for the protein or peptide of interest are amplified from appropriate hybridomas and inserted directly into the genome of a cell that produces human

antibodies. See Verhoeyen et al., *supra*; see also Reichmann et al., *supra*. Some of these techniques transfer the antigen-binding site of a specifically binding mouse or rat monoclonal antibody or the like to a human antibody. Such antibodies can be preferable for therapeutic use in humans because they are typically not as antigenic as rat or mouse antibodies.

- 5 [192] In an alternative embodiment, genes that encode the variable region from a hybridoma producing a monoclonal antibody of interest can be amplified using oligonucleotide primers for the variable region. These primers may be synthesized by one of ordinary skill in the art, or may be purchased from commercially available sources. For instance, primers for mouse and human variable regions including, among others, primers for
- 10 $V_{H\alpha}$, $V_{H\beta}$, $V_{H\gamma}$, $V_{H\delta}$, C_{H1} , V_L , and C_L regions are available from Stratacyte (La Jolla, CA). These primers may be utilized to amplify heavy- or light-chain variable regions, which may then be inserted into vectors such as IMMUNOZAPTM(H) or IMMUNOZAPTM(L) (Stratacyte), respectively. These vectors may then be introduced into *E. coli* for expression. Utilizing these techniques, large amounts of a single-chain protein containing a fusion of the
- 15 V_H and V_L domains may be produced, see Bird et al., Science 242:423-426 (1988).

[193] ANTIBODY SUBSTITUTIONS - NON-IMMUNOGLOBULIN POLYPEPTIDES (ALL ABS):

- [194] Non-immunoglobulin polypeptides can be substituted in monoclonal and other antibodies described herein for the constant domains of an antibody, or they can be
- 20 substituted for the variable domains of one antigen-combining site of an antibody to create a chimeric bivalent antibody comprising one antigen-combining site having specificity for an antigen and another antigen-combining site having specificity for a different antigen.

[195] CHIMERICS:

- [196] Chimeric or hybrid antibodies can also be prepared *in vitro* using known methods in
- 25 synthetic protein chemistry, including those involving crosslinking agents, in view of the present application. For example, immunotoxins may be constructed using a disulfide-exchange reaction or by forming a thioether bond. Examples of suitable reagents for this purpose include iminothiolate and methyl-4-mercaptobutyrimidate.

[197] ANTIBODY LABELING (ALL ABS):

- 30 [198] For diagnostic applications or otherwise as desired, and for monoclonal and other antibodies described herein, the antibodies and other binding partners typically will be labeled with a detectable moiety. The detectable moiety can be any moiety that is capable of

producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ^3H , ^{14}C , ^{32}P , ^{35}S , or ^{125}I ; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or horseradish peroxidase. Any method known in the art for conjugating the antibody or binding partner to the detectable moiety may be employed, including those methods described by Hunter et al., *Nature*, 144:945 (1962); David et al., *Biochemistry*, 13:1014 (1974); Pain et al., *J. Immunol. Meth.*, 40:219 (1981); and Nygren, *J. Histochem. Cytochem.*, 30:407 (1982).

10 (iii) Humanized And Human Antibodies

[199] **HUMANIZED AB GENERALLY:**

[200] Methods for humanizing non-human antibodies are well known in the art and have been discussed in part above. Generally, a humanized antibody has one or more amino acid residues introduced into it from a source which is non-human. These non-human amino acid residues are often referred to as "import" residues, which are typically taken from an "import" variable domain. Humanization can be performed essentially following the method of Winter and co-workers, Jones et al., *Nature*, 321:522-525 (1986); Riechmann et al., *Nature*, 332:323-327 (1988); Verhoeyen et al., *Science*, 239:1534-1536 (1988), by substituting rodent CDRs or CDR sequences for the corresponding sequences of a human antibody. Accordingly, such humanized antibodies are chimeric antibodies, U.S. Pat. No. 4,816,567, wherein substantially less than an intact human variable domain has been substituted by the corresponding sequence from a non-human species. In practice, humanized antibodies are typically human antibodies in which some CDR residues and possibly some FR residues are substituted by residues from analogous sites in rodent antibodies.

25 [201] The choice of human variable domains, both light and heavy, to be used in making humanized antibodies is very important to reduce antigenicity. According to the so-called "best-fit" method, the sequence of the variable domain of a rodent antibody is screened against the entire library of known human variable-domain sequences. The human sequence that is closest to that of the rodent is then accepted as the human framework (FR) for the humanized antibody. Sims et al., *J. Immunol.*, 151:2296 (1993); Chothia and Lesk, *J. Mol. Biol.*, 196:901 (1987). Another method uses a particular framework derived from the consensus sequence of all human antibodies of a particular subgroup of light or heavy chains.

The same framework may be used for several different humanized antibodies. Carter et al., Proc. Natl. Acad. Sci. USA, 89:4285 (1992); Presta et al., J. Immunol., 151:2623 (1993).

[202] It is typically desirable that antibodies be humanized with retention of high affinity for the antigen and other favorable biological properties. To achieve this goal, according to one method, humanized antibodies are prepared by a process of analysis of the parental sequences and various conceptual humanized products using three-dimensional models of the parental and humanized sequences. Three-dimensional immunoglobulin models are commonly available and are familiar to those skilled in the art. Computer programs are available that illustrate and display probable three-dimensional conformational structures of selected candidate immunoglobulin sequences. Inspection of these displays permits analysis of the likely role of the residues in the functioning of the candidate immunoglobulin sequence, *e.g.*, the analysis of residues that influence the ability of the candidate immunoglobulin to bind antigen. In this way, FR residues can be selected and combined from the consensus and import sequences so that the desired antibody characteristic, such as increased affinity for the target antigen(s), is achieved. In general, CDR residues are directly and most substantially involved in influencing antigen binding.

[203] It is also possible to produce transgenic animals (*e.g.*, mice) that are capable, upon immunization, of producing a full repertoire of human antibodies in the absence of endogenous immunoglobulin production. For example, it has been described that the homozygous deletion of the antibody heavy-chain joining region (J_H) gene in chimeric and germ-line mutant mice results in complete inhibition of endogenous antibody production. Transfer of the human germ-line immunoglobulin gene array in such germ-line mutant mice will result in the production of human antibodies upon antigen challenge. *See, e.g.*, Jakobovits et al., Proc. Natl. Acad. Sci. USA. 90:2551-255 (1993); Jakobovits et al., Nature, 362:255-258 (1993); Bruggemann et al., Year Immuno., 7:33 (1993). Human antibodies can also be produced in phage-display libraries, Hoogenboom and Winter, J. Mol. Biol., 227:381 (1991); Marks et al., J. Mol. Biol., 222:581 (1991).

(iv) Antibody Fragments

[204] **ANTIBODY FRAGMENTS:**

[205] Various techniques have been developed for the production of antibody fragments. Such fragments can be derived via proteolytic digestion of intact antibodies, *see, e.g.*,

Morimoto et al., J. Biochem. Biophys. Meth. 24:107-117 (1992) and Brennan et al., Science, 229:81 (1985). Fragments can also be produced directly by recombinant host cells. For example, antibody fragments can be isolated from antibody phage libraries discussed above. Fab'-SH fragments can be directly recovered from *E. coli* and chemically coupled to form F(ab')₂ fragments, Carter et al., Biotechnology 10:163-167 (1992). F(ab')₂ fragments can be isolated directly from recombinant host cell culture. Other techniques for the production of antibody fragments will be apparent to the skilled practitioner.

(v) Bispecific Antibodies

10 [206] **BISPECIFIC ANTIBODIES GENERALLY:**

[207] Bispecific antibodies (BsAbs) are antibodies that have binding specificities for at least two different antigens. Bispecific antibodies can be derived from full-length antibodies or from antibody fragments, *e.g.*, F(ab')₂ bispecific antibodies.

[208] Methods for making bispecific antibodies are known in the art. Traditional
15 production of full-length bispecific antibodies is based on the coexpression of two immunoglobulin heavy chain-light chain pairs, where the two chains have different specificities, Millstein and Cuello, Nature, 305:537-539 (1983). Because of the random assortment of immunoglobulin heavy and light chains, these hybridomas (quadromas) produce a mixture of potentially 10 different antibody molecules, of which only one has the
20 correct bispecific structure. Purification of the correct molecule, which is usually accomplished by affinity chromatography steps, is rather cumbersome, and the product yields are low. Similar procedures are disclosed in WO 93/08829, and in Traunecker et al., E.M.B.O. J., 10:3655-3659 (1991).

[209] According to another approach, antibody variable domains containing the desired
25 binding specificities (antibody-antigen combining sites) are fused to immunoglobulin constant domain sequences. The fusion is preferably with an immunoglobulin heavy chain constant domain, comprising at least part of the hinge, C_H 2, and C_H 3 regions. It is preferred to have the first heavy-chain constant region (C_H 1) containing the site necessary for light chain binding, present in at least one of the fusions. DNAs encoding the immunoglobulin
30 heavy chain fusions and, if desired, the immunoglobulin light chain, are inserted into separate expression vectors, and are co-transfected into a suitable host organism. This provides for great flexibility in adjusting the mutual proportions of the three polypeptide fragments in

embodiments when unequal ratios of the three polypeptide chains used in the construction provide the improved yields. It is, however, possible to insert the coding sequences for two or all three polypeptide chains in one expression vector when the expression of at least two polypeptide chains in equal ratios results in high yields or when the ratios are of no particular
5 significance.

[210] ANTIBODIES - HYBRID IMMUNOGLOBULIN HEAVY CHAIN:

[211] In one embodiment of this approach, the bispecific antibodies are composed of a hybrid immunoglobulin heavy chain with a first binding specificity in one arm, and a hybrid immunoglobulin heavy chain-light chain pair (providing a second binding specificity) in the
10 other arm. This asymmetric structure may facilitate the separation of the desired bispecific compound from unwanted immunoglobulin chain combinations, as the presence of an immunoglobulin light chain in only one half of the bispecific molecule provides for a facile method of separation. This approach is discussed in WO 94/04690. For further details of generating bispecific antibodies see, for example, Suresh et al., Meth. Enzymol., 121:210
15 (1986).

[212] ANTIBODIES - CROSS-LINKED OR "HETEROCONJUGATE":

[213] Bispecific antibodies include cross-linked or "heteroconjugate" antibodies. For example, one of the antibodies in the heteroconjugate can be coupled to avidin, the other to biotin. Such antibodies have, for example, been proposed to target immune system cells to
20 unwanted cells, U.S. Pat. No. 4,676,980), and for treatment of HIV infection, WO 91/00360, WO 92/200373, and EP 03089). Heteroconjugate antibodies may be made using any convenient cross-linking methods. Suitable cross-linking agents are well known in the art, and are disclosed in U.S. Pat. No. 4,676,980, along with a number of cross-linking techniques.

25 [214] ANTIBODIES - DIABODIES:

[215] The "diabody" technology described by Hollinger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993) has provided an alternative mechanism for making BsAb fragments. The fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) by a linker that is too short to allow pairing between the two domains
30 on the same chain. Accordingly, the V_H and V_L domains of one fragment are forced to pair with the complementary V_L and V_H domains of another fragment, thereby forming two antigen-binding sites.

[216] Another strategy for making BsAb fragments by the use of single-chain Fv (sFv) dimers has also been reported. See Gruber et al., J. Immunol., 152:5368 (1994). These researchers designed an antibody comprising the V_H and V_L domains of a first antibody joined by a 25-amino-acid-residue linker to the V_H and V_L domains of a second antibody.

- 5 The refolded molecule bound to fluorescein and the T-cell receptor and redirected the lysis of human tumor cells that had fluorescein covalently linked to their surface.

[217] **ANTIBODIES - OTHER:**

- [218] Techniques for generating bispecific antibodies from antibody fragments have also been described in the literature. For example, bispecific antibodies can be prepared using chemical linkage. Brennan et al., Science, 229:81 (1985) describe a procedure wherein intact antibodies are proteolytically cleaved to generate F(ab')₂ fragments. These fragments are reduced in the presence of the dithiol complexing agent sodium arsenite to stabilize vicinal dithiols and prevent intermolecular disulfide formation. The Fab' fragments generated are then converted to thionitrobenzoate (TNB) derivatives. One of the Fab'-TNB derivatives is then reconverted to the Fab'-thiol by reduction with mercaptoethylamine and is mixed with an equimolar amount of the other Fab'-TNB derivative to form the BsAb. The BsAbs produced can be used as agents for the selective immobilization of enzymes.
- 10
- 15

- [219] Fab'-SH fragments can be directly recovered from *E. coli*, which can be chemically coupled to form bispecific antibodies. Shalaby et al., J. Exp. Med., 175:217-225 (1992) describe the production of a fully humanized BsAb F(ab')₂ molecule. Each Fab' fragment was separately secreted from *E. coli* and subjected to directed chemical coupling *in vitro* to form the BsAb. The BsAb thus formed was able to bind to cells overexpressing the HER2 receptor and normal human T cells, as well as trigger the lytic activity of human cytotoxic lymphocytes against human breast tumor targets. See also Rodriguez et al., Int. J. Cancers (Suppl.) 7:45-50 (1992).
- 20
- 25

- [220] Various techniques for making and isolating BsAb fragments directly from recombinant cell culture have also been described. For example, bispecific F(ab')₂ heterodimers have been produced using leucine zippers. Kostelny et al., J. Immunol., 148(5):1547-1553 (1992). The leucine zipper peptides from the Fos and Jun proteins are linked to the Fab' portions of two different antibodies by gene fusion. The antibody homodimers are reduced at the hinge region to form monomers and then re-oxidized to form the antibody heterodimers.
- 30

b. Antibody Purification

[221] ANTIBODY PURIFICATION GENERALLY:

[222] When using recombinant techniques, the antibody can be produced intracellularly, in the periplasmic space, or directly secreted into the medium. If the antibody is produced intracellularly, as a first step, the particulate debris, either host cells or lysed fragments, is removed, for example, by centrifugation or ultrafiltration. Carter et al., Bio/Technology 10:163-167 (1992), describe a procedure for isolating antibodies which are secreted to the periplasmic space of *E. coli*. Briefly, cell paste is thawed in the presence of sodium acetate (pH 3.5), EDTA, and phenylmethylsulfonylfluoride (PMSF) over about 30 min. Cell debris can be removed by centrifugation. Where the antibody is secreted into the medium, supernatants from such expression systems are generally first concentrated using a commercially available protein concentration filter, for example, an Amicon or Millipore Pellicon ultrafiltration unit. A protease inhibitor such as PMSF may be included in any of the foregoing steps to inhibit proteolysis and antibiotics may be included to prevent the growth of adventitious contaminants.

[223] BEFORE LPHIC:

[224] The antibody composition prepared from the cells is preferably subjected to at least one purification step prior to LPHIC. Examples of suitable purification steps include hydroxyapatite chromatography, gel electrophoresis, dialysis, and affinity chromatography. The suitability of protein A as an affinity ligand depends on the species and isotype of any immunoglobulin Fc domain that is present in the antibody. Protein A can be used to purify antibodies that are based on human $\gamma 1$, $\gamma 2$, or $\gamma 4$ heavy chains, Lindmark et al., J. Immunol. Meth. 62:1-13 (1983). Protein G has been recommended for mouse isotypes and for human $\gamma 3$, Guss et al., E.M.B.O. J., 5:1567-1575 (1986). The matrix to which the affinity ligand is attached is often agarose, but other matrices are available. Mechanically stable matrices such as controlled pore glass or poly(styrenedivinyl)benzene allow for faster flow rates and shorter processing times than can be achieved with agarose. Where the antibody comprises a $C_H 3$ domain, the Bakerbond ABXTM resin (J. T. Baker, Phillipsburg, N.J.) is useful for purification. Other techniques for protein purification such as fractionation on an ion-exchange column, ethanol precipitation, Reverse Phase HPLC, chromatography on silica, chromatography on heparin SEPHAROSETM, chromatography on an anion or cation

exchange resin (such as a polyaspartic acid column), chromatofocusing, SDS-PAGE, and ammonium sulfate precipitation are also available depending on the antibody to be recovered.

[225] LPHIC:

[226] Following any preliminary purification step(s), the mixture comprising the antibody of interest and contaminant(s) can be subjected to LPHIC. See US Patent No. 6,214,984. Often, the antibody composition to be purified will be present in a buffer from the previous purification step. However, it may be necessary to add a buffer to the antibody composition prior to the LPHIC step. Many buffers are available and can be selected by routine experimentation. The pH of the mixture comprising the antibody to be purified and at least one contaminant in a loading buffer is adjusted to a pH of about 2.5–4.5 using either an acid or base, depending on the starting pH. The loading buffer can have a low salt concentration (e.g., less than about 0.25 M salt).

[227] The mixture is loaded on the HIC column. HIC columns normally comprise a base matrix (e.g., cross-linked agarose or synthetic copolymer material) to which hydrophobic ligands (e.g., alkyl or aryl groups) are coupled. One example of an HIC column comprises an agarose resin substituted with phenyl groups (e.g., a Phenyl SEPHAROSE™ column). Many HIC columns are available commercially. Examples include, but are not limited to, Phenyl SEPHAROSE 6 FAST FLOW™ column with low or high substitution (Pharmacia LKB Biotechnology, AB, Sweden); Phenyl SEPHAROSE™ High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); Octyl SEPHAROSE™ High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); FRACTOGEL™ EMD Propyl or FRACTOGEL™ EMD Phenyl columns (E. Merck, Germany); MACRO-PREP™ Methyl or MACRO-PREP™ t-Butyl Supports (Bio-Rad, California); WP HI-Propyl (C₃)™ column (J. T. Baker, New Jersey); and TOYOPEARL™ ether, phenyl, or butyl columns (TosoHaas, PA).

[228] The antibody is typically eluted from the column using an elution buffer that is the same as the loading buffer. The elution buffer can be selected using routine experimentation in view of the present application. The pH of the elution buffer may be between about 2.5–4.5 and have a low salt concentration (e.g., less than about 0.25 M salt). It may not be necessary to use a salt gradient to elute the antibody of interest; the desired product may be recovered in the flow-through fraction that does not bind significantly to the column.

[229] The LPHIC step provides a way to remove a correctly folded and disulfide bonded antibody from unwanted contaminants (*e.g.*, incorrectly associated light and heavy fragments). The method can provide an approach to substantially remove an impurity characterized as a correctly folded antibody fragment whose light and heavy chains fail to
5 associate through disulfide bonding. Antibody compositions prepared using LPHIC can be up to about 95% pure or more. Purities of more than about 98% have been reported. US Patent No. 6,214,984.

[230] **POST LPHIC:**

[231] Antibody compositions prepared by LPHIC can be further purified as desired using
10 techniques which are well known in the art. Diagnostic or therapeutic formulations of the purified protein can be made by providing the antibody composition in a physiologically acceptable carrier, examples of which are provided below. To remove contaminants (*e.g.*, unfolded antibody and incorrectly associated light and heavy fragments) from the HIC column so that it can be re-used, a composition including urea (*e.g.*, 6.0 M urea, 1% MES
15 buffer pH 6.0, 4 mM ammonium sulfate) can be flowed through the column.

c. Some Uses For Antibodies Described Herein

(i) Generally

[232] **GENERALLY:**

20 [233] The present invention comprises any suitable use for the antibodies and other binding partners discussed herein. The following provides some of the desired uses, including diagnostic and therapeutic uses. Various diagnostic and therapeutic uses for antibodies have been reviewed in Goldenberg et al., *Semin. Cancer Biol.*, 1(3):217-225 (1990); Beck et al., *Semin. Cancer Biol.*, 1(3):181-188 (1990); Niman, *Immunol. Ser.* 53:189-
25 204 (1990); and, Endo, *Nippon Igaku Hoshasen Gakkai Zasshi (Japan)* 50(8):901-909 (1990), for example.

[234] **ASSAYS:**

[235] The antibodies can be used in immunoassays, such as enzyme immunoassays. BsAbs can be useful for this type of assay; one arm of the BsAb can be designed to bind to a
30 specific epitope on the enzyme so that binding does not cause enzyme inhibition, the other arm of the antibody can be designed to bind to an immobilizing matrix ensuring a high enzyme density at the desired site. Examples of such diagnostic BsAbs include those having

specificity for IgG as well as ferritin, and those having binding specificities for horseradish peroxidase (HRP) as well as a hormone, for example. Monoclonal and polyclonal antibodies are also exemplary antibodies for immunoassays.

[236] The antibodies can be designed for use in two-site immunoassays. For example, two antibodies are produced binding to two separate epitopes on the analyte protein; one antibody binds the complex to an insoluble matrix, the other binds an indicator enzyme.

[237] **DIAGNOSTIC USES:**

[238] Antibodies can also be used for immunodiagnosis, *in vitro* or *in vivo* or otherwise, of various diseases or conditions based on the presence or absence of a particular GPCR. Such diseases and conditions include, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and

cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

- 5 [239] To facilitate this diagnostic use, an antibody that binds a particular GPCR, when such is differentially expressed in tumors or other target diseases, can be conjugated with a detectable marker (*e.g.*, a chelator that binds a radionuclide). Examples of tumor-associated antigens being used in a similar fashion include an antibody having specificity for the tumor-associated antigen CEA used for imaging colorectal and thyroid carcinomas and the anti-
10 p185^{HER2} antibody used for detecting cancers characterized by amplification of the HER2 protooncogene. Other uses for the antibodies of the present invention will be apparent to the skilled practitioner in view of the present application.

(ii) Assays

15 [240] ASSAYS:

- [241] For certain applications such as some diagnostic and other assay applications, the antibody typically can be labeled directly or indirectly with a detectable moiety. The detectable moiety can be any moiety that is capable of producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ³H,
20 ¹⁴C, ³²P, ³⁵S, or ¹²⁵I; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or HRP.

- [242] Any method known in the art for separately conjugating the antibody to the detectable moiety may be employed, including those methods described by Hunter et al.,
25 *Nature*, 144:945 (1962); David et al., *Biochemistry*, 13:1014 (1974); Pain et al., *J. Immunol. Meth.* 40:219 (1981); and, Nygren, *J. Histochem. and Cytochem.* 30:407 (1982).

- [243] The antibodies of the present invention may be employed in any desired assay method, such as competitive binding assays, direct, and indirect sandwich assays, and immunoprecipitation assays. Zola, *Monoclonal Antibodies: A Manual of Techniques*, pp.
30 147-158 (CRC Press, Inc. (1987).

[244] COMPETITIVE BINDING ASSAYS:

[245] Competitive binding assays rely on the ability of a labeled standard to compete with the test sample analyte for binding with a limited amount of antibody. The amount of analyte in the test sample is inversely proportional to the amount of standard that becomes bound to the antibody. To facilitate determining the amount of standard that becomes bound, the antibody generally is insolubilized before or after the competition, so that the standard, and analyte that are bound to the antibody may conveniently be separated from the standard, and analyte which remain unbound.

[246] BsAbs are particularly useful for sandwich assays which involve the use of two molecules, each capable of binding to a different immunogenic portion, or epitope, of the sample to be detected. In a sandwich assay, the test sample analyte is bound by a first arm of the antibody which is immobilized on a solid support, and thereafter a second arm of the antibody binds to the analyte, thus forming an insoluble three part complex. *See, e.g.*, U.S. Pat. No. 4,376,110. The second arm of the antibody may itself be labeled with a detectable moiety (direct sandwich assays) or may be measured using an anti-immunoglobulin antibody that is labeled with a detectable moiety (indirect sandwich assay). For example, one type of sandwich assay is an ELISA assay, in which case the detectable moiety is an enzyme. Assays are discussed further elsewhere herein in relation to binding partners such as antibodies, and antigenic peptides for particular GPCRs, including assays searching for or using such antigenic peptides, and would be apparent to those skilled in the art in view of the present application.

(iii) Affinity Purification

[247] AFFINITY PURIFICATION:

[248] The antibodies also are useful for the affinity purification of an antigen of interest such as a particular GPCR from sources such as recombinant cell culture or natural sources.

(iv) Therapeutics

[249] THERAPEUTIC USES:

[250] Therapeutic compositions, and uses, etc., for the antibodies described herein will now be discussed. As with other parts of this application, this section does not contain the entire discussion of therapeutic uses or compositions, etc., for antibodies; other sections discuss both antibodies, and therapeutics, and the discussion in this section applies to certain

other aspects discussed herein. Turning to antibodies and therapeutics, the antibodies can be used, for example, for redirected cytotoxicity (*e.g.*, to kill tumor cells), as a vaccine adjuvant, for delivering thrombolytic agents to clots, for delivering immunotoxins to tumor cells, for converting enzyme activated prodrugs at a target site (*e.g.*, a tumor), for treating infectious diseases or targeting immune complexes to cell surface receptors.

[251] THERAPEUTIC FORMULATIONS:

[252] Therapeutic formulations of the antibody can be prepared for storage by mixing the antibody having the desired degree of purity with optional physiologically acceptable carriers, excipients, or stabilizers (Remington's Pharmaceutical Sciences, 16th edition, Osol, A., Ed. (1980), for example in the form of lyophilized cake or aqueous solutions. Acceptable carriers, excipients, or stabilizers are nontoxic to recipients at the dosages, and concentrations employed, and include buffers such as phosphate, citrate, and other organic acids; antioxidants including ascorbic acid; low molecular weight (less than about 10 residues) polypeptides; proteins, such as serum albumin, gelatin, or immunoglobulins; hydrophilic polymers such as polyvinylpyrrolidone; amino acids such as glycine, glutamine, asparagine, arginine, or lysine; monosaccharides, disaccharides, and other carbohydrates including glucose, mannose, or dextrans; chelating agents such as EDTA; sugar alcohols such as mannitol or sorbitol; salt-forming counterions such as sodium; or nonionic surfactants such as Tween, Pluronic, or polyethylene glycol (PEG).

[253] The antibodies also may be entrapped in microcapsules prepared, for example, by coacervation techniques or by interfacial polymerization (for example, hydroxymethylcellulose or gelatin-microcapsules, and poly-[methylmethacrylate] microcapsules, respectively), in colloidal drug delivery systems (for example, liposomes, albumin microspheres, microemulsions, nano-particles, and nanocapsules), or in macroemulsions. Such techniques are disclosed in Remington's Pharmaceutical Sciences, *supra*.

[254] THERAPEUTIC FORMULATIONS -STERILE:

[255] An antibody to be used for *in vivo* human administration should be sterile. This can be accomplished by filtration through sterile filtration membranes, for example prior to or following lyophilization and reconstitution. The antibody ordinarily will be stored in lyophilized form or in solution. Therapeutic antibody compositions generally are placed into

a container having a sterile access port, for example, an intravenous solution bag or vial having a stopper pierceable by a hypodermic injection needle.

[256] THERAPEUTIC ADMINISTRATIONS:

[257] The route of antibody administration is in accord with known methods, *e.g.*,
5 injection or infusion by intravenous, intraperitoneal, intracerebral, intramuscular, intraocular, intraarterial, or intralesional routes, or by sustained release systems as noted below.

[258] The antibody can be administered, for example, continuously by infusion or by bolus injection. Suitable examples of sustained-release preparations include semipermeable matrices of solid hydrophobic polymers containing the protein, which matrices are in the
10 form of shaped articles, *e.g.*, films, or microcapsules. Examples of sustained-release matrices include polyesters, hydrogels (*e.g.*, poly(2-hydroxyethyl-methacrylate) as described by Langer et al., J. Biomed. Mater. Res., 15:167-277 (1981), and Langer, Chem. Tech., 12:98-105 (1982), or poly(vinylalcohol)), polylactides, U.S. Pat. No. 3,773,919; EP 58,481, copolymers of L-glutamic acid and gamma ethyl-L-glutamate, Sidman et al., Biopolymers,
15 22:547-556 (1983), non-degradable ethylene-vinyl acetate, Langer et al., *supra*, degradable lactic acid-glycolic acid copolymers such as the LUPRON DEPOT™ (injectable microspheres composed of lactic acid-glycolic acid copolymer and leuprolide acetate), and poly-D-(-)-3-hydroxybutyric acid, EP 133,988.

**[259] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-
20 POLYMERS:**

[260] While polymers such as ethylene-vinyl acetate and lactic acid-glycolic acid sustain release of molecules for over 100 days, certain hydrogels release proteins for shorter time periods. When encapsulated antibodies remain in the body for a long time, they may denature or aggregate as a result of exposure to moisture at 37°C, resulting in a loss of
25 biological activity and possible changes in immunogenicity. Rational strategies can be devised for antibody stabilization depending on the mechanism involved. For example, if the aggregation mechanism is discovered to be intermolecular S--S bond formation through thio-disulfide interchange, stabilization may be achieved by modifying sulfhydryl residues, lyophilizing from acidic solutions, controlling moisture content, using appropriate additives,
30 and developing specific polymer matrix compositions.

[261] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-LIPOSOMES:

[262] Sustained-release antibody compositions also include liposomally entrapped antibody. Liposomes containing the antibody can be prepared by methods such as those in DE 3,218,121; Epstein et al., Proc. Natl. Acad. Sci. USA, 82:3688-3692 (1985); Hwang et al., Proc. Natl. Acad. Sci. USA, 77:4030-4034 (1980); EP 52,322; EP 36,676; EP 88,046; EP 5 143,949; EP 142,641; Japanese patent application 83-118008; U.S. Pat. Nos. 4,485,045 and 4,544,545; and EP 102,324. Ordinarily the liposomes are of the small (about 200-800 Angstroms) unilamellar type in which the lipid content is greater than about 30 mol. % cholesterol, the selected proportion being adjusted for the optimal antibody therapy.

[263] **THERAPEUTICALLY EFFECTIVE AMOUNT:**

10 [264] An effective amount of antibody to be employed therapeutically will depend, for example, upon the therapeutic objectives, the route of administration, and the condition of the patient. Accordingly, it will be necessary for the therapist to titer the dosage and modify the route of administration as required to obtain the optimal therapeutic effect. A typical daily dosage might range from about 1 µg/kg to up to 10 mg/kg or more, depending on the factors
15 mentioned above. Typically, the clinician will administer antibody until a dosage is reached that achieves the desired effect. The progress of this therapy is easily monitored by conventional assays.

20 5. DRUG DESIGN BASED ON THE ANTIGENS HEREIN OR ANTIBODIES THERETO

[265] **DISEASE/CONDITIONS LIST:**

[266] The peptides and antibodies of the present invention can serve as valuable tools for designing drugs for treating various pathophysiological conditions such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-
25 related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (e.g., osteoarthritis, osteoporosis), carcinoma (e.g., basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung
30 small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne

muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (e.g., by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (e.g., anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (e.g., chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved or that would be readily apparent to those skilled in the art in view of the present application.

EXAMPLES

[267] The Examples below provide information as follows: Example 1 relates to the identification and selection of the antigens set forth in Figure 2. Examples 2 to 4 relate to antibody production and purification based on such antigens. Examples 5 to 10 relate to H&E staining. And, Example 11 relates to Western blot analyses.

EXAMPLE 1: SELECTION OF ANTIGENS

[268] Antigenic peptides were derived from the amino acid sequence of a particular GPCR based on analyses of likely antigen-containing regions and specificity of those regions for the protein/gene of interest. The specificity of the antigen peptides (approximately 20 amino acids in length) for antibody generation was determined using the outlined techniques, including BLAST of several public databases. These public databases included but were not limited to GenBank, Swiss Prot Human, Swiss Prot NonHuman, GenPeptH, GenPept M, and

LifeSpan's proprietary databases. With respect to specificity, parameters that precluded the use of a particular peptide included the presence of 6 or more contiguous amino acids with sequence identity to protein(s) other than the protein of interest, the presence of sites of posttranslational modification, including phosphorylation and glycosylation, and highly hydrophobic sequences, which could indicate potential *in situ* localization within the plasma membrane. The peptides were analyzed for antigenicity using the published algorithm of Hopp, T. P., and Woods, K. R, Proc. Natl. Acad. Sci. U.S.A. 78, 3824-3828, (1981). Additional considerations in antigenic peptide design included 1) selection against sequences with multiple prolines in a row, 2) selection against sequences with multiple serines in a row, 3) selection against sequences with multiple lysines in a row, 4) selection against sequences with multiple arginines in a row 5) selection against sequences with multiple aspartic acids in a row, 6) selection against sequences with multiple glutamic acids in a row, 7) selection against peptides containing methionine or tryptophan, which can become oxidized as a result of the cyclization reaction, and 8) avoidance of stretches of 5 or more amino acids having no uncharged amino acids (which also resulted in a desirable charge to peptide length ratio of at least 1 charge:5 residues). The selected antigenic peptides are set forth in the Sequence Listing and in Figure 2.

EXAMPLE 2: ANTIBODY PRODUCTION SCHEDULE

- [269] Day 0 - Pre-immune serum collection (approximately 5.0 ml). Immunize using 200 µg antigen peptide per rabbit in Complete Freund's Adjuvant.
- [270] Day 14 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [271] Day 28 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [272] Day 42 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [273] Day 49 - First production bleed; obtain 24.0 - 26.0 ml.
- [274] Day 56 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [275] Day 63 - Second production bleed and ELISA analysis.

[276] Day 70 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.

[277] Day 77 - Third production bleed and affinity purification.

5 **EXAMPLE 3: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
COUPLING OF PEPTIDE TO CNBR-ACTIVATED SEPHAROSE 4B**

[278] Weigh out 0.8 g of CNBr-activated Sepharose 4B (2.5 ml of final gel volume). Wash and re-swell on sintered glass filter with 1 mM HCl, followed by coupling buffer (0.1 M NaHCO₃, 0.25 M NaCl, pH 8.5). Dissolve 10 mg of protein or peptide in coupling buffer.

10 Mix protein solution with gel suspension and incubate 2 hours at room temperature or overnight at 4°C. Block remaining active groups with 0.2 M glycine buffer, pH 8.1. Wash away excess adsorbed protein with coupling buffer, followed by 0.1 M acetate buffer containing 0.5 M NaCl, pH 4.3. Equilibrate the column with phosphate-buffered saline (PBS), pH 7.7.

15 **EXAMPLE 4: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
AFFINITY PURIFICATION OF ANTISERUM**

[279] Dilute 10 ml of clear antiserum 1:1 with PBS, pH 7.7, apply to affinity column at a flow rate of 0.3 ml/minute, and monitor absorbance of eluate at 280 nm. Collect fractions of
20 unbound material and rinse column with PBS, pH 7.7. Elute bound antibody with 0.2 M glycine, pH 1.85, and collect eluate until absorbance at 280 nm returns to baseline. Neutralize all collected fractions with 1 M Tris-HCl, pH 8.5 immediately after collection. Determine OD at 280 nm, and determine the total OD recovered. Conduct ELISA analysis
25 and the removal of all antibody from the original serum. Concentrate antibody to approximately 2.0 mg/ml and dialyze against PBS with 0.01% NaN₃.

EXAMPLE 5: PREPARATION OF ANTIBODY DILUTIONS

[280] The purpose of this protocol is to dilute antibodies in solution. Materials include
30 Tris-HCL Buffer with carrier protein and 0.015 M NaN₃ (Dako Antibody Diluent #S0809 (DAKO, Carpinteria, CA); vials containing the antibodies described above or commercial antibodies against the particular GPCR; pipetmen and disposable tips; container of chopped ice; 12 ml Dako reagent tubes; and, reagent tube rack.

[281] The procedure is a) calculate proportions of antibody and diluent according to desired concentrations and volume requirements; b) label reagent tubes and place in rack; c) pipette needed volume of diluent into tube(s); d) place vials of antibodies into ice; e) invert and/or flick antibody vial(s) 3 or 4 times to insure suspension; f) pipette required volume of antibody(s) into corresponding diluent volumes; and, g) mix gently.

EXAMPLE 6: PREPARATION OF AUTOSTAINER SOLUTIONS

[282] The purpose of this protocol is the preparation of concentrated solutions for use in a DAKO autostainer. Materials include DAKO[®] TBST (Tris Buffered Saline Containing Tween-S3306), 10X Concentrate, DAKO[®] Target Retrieval Solution, 10x Concentrate (S1699), deionized H₂O, 20L container, with lid, marked at the 10L level, DAKO[®] TBS (Tris Buffered Saline-S1968), and DAKO Tween[®] (S1966).

[283] The procedure to make TBST 10x Concentrate is a) pour 2 500 ml bottles DAKO[®] TBST into a 20 L container, b) add deionized H₂O until solution level is at 10 L mark, c) replace lid and shake 10 to 20 times, d) pour diluted DAKO[®] TBST into autostainer carboy(s) as designated. The procedure to make Target Retrieval Solution is a) measure 135 ml of deionized H₂O and pour into slide bath, b) measure 15 ml of DAKO[®] Target Retrieval solution, c) add to H₂O, and d) agitate. This solution is then used in the steam method of target retrieval, Example 9, below. The procedure to make TBS is a) fill 20L container to 10L mark with deionized H₂O, b) add 2 envelopes of DAKO[®] TBS, c) add 5 ml of DAKO TWEEN[®], and d) replace lid and agitate 10 to 20 times.

EXAMPLE 7: PREPARATION OF SOLUTIONS FOR ANTIBODY DETECTION

[284] Solutions for antibody detection are prepared using Vector[®] Biotinylated antibody (BA series), Vectastain[®] ABC-AP Kit (AK-5000), 10 mM sodium phosphate, pH 7.5, 0.9% saline (PBS), Vector[®] Red Alkaline Phosphatase Substrate Kit I (SK-5100), and 100 mM Tris-HCl, pH 8.2 Buffer. To prepare biotinylated antibody, add 10 ml of PBS to reagent tube, add 1 drop biotinylated antibody to the PBS, then mix gently. To prepare ABC, to 10 ml of PBS, add 2 drops each of Reagent A and Reagent B, mix immediately, then allow to stand 30 minutes before use. To prepare AP Red, which should be prepared immediately

before use, to 5 ml of Tris-HCl buffer, add 2 drops of Reagent 1 and mix well, add 2 drops of Reagent 2 and mix well, then add 2 drops of Reagent 3 and mix well.

EXAMPLE 8: DEPARAFFINIZATION AND REHYDRATION OF SAMPLES

[285] The purpose of this protocol is to remove paraffin from and rehydrate preserved tissues in preparation for IHC procedures. Materials and equipment include fume hood, vertical slide rack(s), three xylene (VWR #72060-088) baths, three 100% alcohol blend (VWR #72060-050) baths, two 95% alcohol blend (VWR #72060-052) baths, one 70% alcohol blend (VWR #72060-056) bath, and Tris-Buffered Saline (DAKO® S1968) + Tween® (DAKO S1966).

[286] Insert the slides into the vertical rack(s). Move slides through baths inside fume hood as follows:

Xylene 5 Minutes
Xylene 5 Minutes
Xylene 5 Minutes
100% Alcohol 2 Minutes
100% Alcohol 2 Minutes
100% Alcohol 1 Minute
95% Alcohol 2 Minutes
95% Alcohol 2 Minutes
70% Alcohol 1 Minute

[287] Finally, place slides into a container with TBST.

EXAMPLE 9: STEAM METHOD OF TARGET RETRIEVAL

[288] The purpose of this protocol is to optimize antibody binding within paraffin embedded tissues. Materials and equipment included a steamer, deionized H₂O, target retrieval solution, 10X concentrate (DAKO #S1699), 250 ml graduated cylinder, 15 ml graduated cylinder, staining dish(es), and deparaffinized and rehydrated tissue on microscope slides in immersed TBST. The procedure is to a) fill the steamer with deionized H₂O to appropriate depth as indicated, b) turn the steamer on, c) in a graduated cylinder, measure 135ml of deionized H₂O and pour into staining dish(es), d) pipette 15ml of target retrieval solution and release into deionized H₂O, e) place the staining dish(es) into the basket of the steamer and heat for at least 10 minutes to preheat, f) add rack(s) containing tissue slides to heated target retrieval solution, g) cover and steam for 20 minutes, h) remove container from

steamer and let stand at room temperature for 20 minutes, i) transfer rack(s) with slides to container(s) of TBST, and j) slides are now ready for staining procedures.

EXAMPLE 10: ANTIBODY DETECTION

- 5 [289] The deparaffinized, rehydrated, and steamed (if needed) slides are loaded onto racks within a DAKO autostainer and then the autostainer is run according to the manufacturer's instructions. The slides are removed and the autostainer is turned off.

EXAMPLE 11: WESTERN BLOTTING

- 10 [290] The purpose of this protocol is to visualize the immunoreactivity of the antibodies described above against the particular GPCR on a western blot. Materials and equipment included western blot membrane, TBS Tween (TBST: 100 mM Tris-HCl pH 7.5, 150 mM NaCl, 0.1% TweenTM 20), 5% non-fat dried milk in TBST (blotto), antibody of interest (primary), peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) (secondary) –
15 Jackson ImmunoResearch, ECL solution (Amersham Biosciences, Uppsala Sweden), film, developer D-19, fixer, rocking platform.

- [291] During the blotting procedure, the blot is kept wet at all times and on a substantially level surface. The Western blot is placed right-side up in 10 ml of blotto. The membrane is flipped over and the dish rocked so that the solution covered it. The membrane is then
20 flipped back to the right side and solution is again rocked over it. The blot is then placed on a shaker for at least 1 hour. Ten ml of primary antibody are prepared by diluting 1:500 in blotto.

- [292] The blotto is removed from the Western blot and replaced with the primary antibody. The blot is flipped again and placed on the shaker for 1 hour. Secondary antibody
25 and peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) are prepared 1:20,000 in 10 ml of blotto. The primary antibody is removed and the Western blot is washed 3 times with 10 ml of blotto. The blotto is removed and replaced with the secondary antibody solution. The blot is flipped and placed on the shaker for 1 hour. The secondary antibody is removed and the blot washed 2 times with 10 ml of blotto. The blotto is removed and the blot is
30 washed 2 times with 10 ml TBST. ECL is prepared by combining equal amounts of Solution 1 and 2.

[293] The blotto is removed and 1 ml of ECL is placed on the blot. The blot is flipped and let sit for 1 minute. The blot is placed on plastic wrap and immediately covered with plastic wrap. The ECL is pressed out. The blot is placed on the film, then the film is developed.

5

[294] From the foregoing, it will be appreciated that, although specific embodiments of the invention have been described herein for purposes of illustration, various modifications may be made without deviating from the spirit and scope of the invention. Accordingly, the invention includes all permutations and combinations of the subject matter set forth herein

10 and is not limited except as by the appended claims.

WHAT IS CLAIMED IS:

1. An isolated antigenic peptide according to any one of SEQ ID NOS. 692-2292.
- 5 2. An isolated antigenic peptide comprising an amino acid sequence that is at least about 90% identical to a sequence set forth in any one of SEQ ID NOS. 692-2292.
3. An isolated antigenic peptide that is an analog of an antigenic peptide according to any one of SEQ ID NOS. 692-2292.
4. An isolated antigenic peptide comprising a short antigenic amino acid
10 sequence that is identical to at least 5 consecutive amino acids set forth in any one of SEQ ID NOS. 692-2292.
5. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any one of SEQ ID NOS. 692-
15 2292.
6. A kit for the detection of antibodies against a particular GPCR in a sample comprising:
 - a) an isolated antigenic peptide according to any one of claims 1-5 and derived from the particular GPCR, and
 - 20 b) at least one of a reagent or a device for detecting the antibodies.
7. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151,
25 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187,
30 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.
8. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is at least about 90% identical to any

one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using the peptide sequence that is
5 at least about 90% identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

9. An isolated antibody having high specificity and high affinity or avidity for a
10 particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the
15 peptide sequence that is the analog to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

10. An isolated antibody having high specificity and high affinity or avidity for a
20 particular GPCR comprising a peptide sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced
25 using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

30 11. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

12. An isolated antibody specific for a particular GPCR comprising a peptide 15 sequence that is at least about 90% identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 20 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using the peptide sequence that is at least about 90% identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 25 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 13. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is the analog to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

14. An isolated antibody specific for a particular GPCR comprising a peptide 15 sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 20 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 25 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 15. A kit for the detection of antibodies against the particular GPCR of claim 5 comprising:

a) an isolated antibody according to any one of claims 7-14, and

b) at least one of a reagent or a device for detecting the antibody.

16. An assay for the detection of a particular GPCR in a sample, comprising:

a) providing an isolated antigenic peptide according to any one of claims 1-5,

b) contacting the isolated antigenic peptide with the sample under conditions suitable
5 and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific
for the particular GPCR present in the sample, to provide an antibody-bound antigenic
peptide, and

c) detecting the antibody-bound antigenic peptide, and therefrom determining whether
the sample contains the particular GPCR.

10 17. The assay of claim 16 further comprising the step of binding the isolated
antigenic peptide or the antibody to a solid substrate.

18. The assay of claim 16 or 17 wherein the sample is an unpurified sample.

19. The assay of any one of claims 15-18 further comprising, prior to the
contacting, obtaining the sample from a human being.

15 20. The assay of any one of claims 15-19 wherein the assay is selected from the
group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a
radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay
(ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an
immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an
20 immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a
biosensor assay, and a low-light detection assay.

21. An isolated nucleic acid molecule encoding an antigenic peptide according to
any one of SEQ ID NOS. 692-2292.

22. The isolated nucleic acid molecule according to claim 21 wherein the
25 molecule encodes a naturally occurring human antigenic peptide.

23. An isolated nucleic acid molecule encoding an antigenic peptide that is at least
about 90% identical to any one of the antigenic peptides set forth in SEQ ID NOS. 692-2292.

24. The isolated nucleic acid molecule according to claim 23 wherein the
antigenic peptide is at least about 95% identical to the antigenic peptide.

30 25. The isolated nucleic acid molecule according to claim 23 or 24 wherein the
molecule encodes a naturally occurring human antigenic peptide.

26. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of SEQ ID NOS. 692-2292 to genomic DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

5 27. A method of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence wherein the antigenic peptide has a length of about 5 to about 100 amino acids, the method comprising:

 a) searching the candidate polypeptide sequence using a comparison window of the length, and

10 b) selecting against amino acid sequences of the length and having at least 3 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising
15 no charged amino acids.

 28. The method of claim 27 wherein the method further comprises selecting against at least 5 of the characteristics.

 29. The method of claim 27 wherein the method further comprises selecting against at least 7 of the characteristics.

20 30. The method of claim 27 wherein the method further comprises selecting against the 9 characteristics.

 31. The method of any one of claims 27-30 wherein the method further comprises:

 c) selecting against amino acid sequences of the length and having at least one of the following additional characteristics 1) sequences having at least 5 consecutive amino
25 acids that are identical to an alternative amino acid sequence from an alternative polypeptide that is different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences.

 32. The method of claim 31 wherein the posttranslational modification sites are phosphorylation or glycosylation sites.

30 33. The method of claim 31 or 32 wherein the method further comprises selecting against at least 2 of the additional characteristics.

34. The method of claim 31 or 32 wherein the method further comprises selecting against the 3 additional characteristics.

35. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.

5 36. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST analysis for the candidate polypeptide sequence.

37. The method of any one of claims 27-36 wherein the antigenic peptide has a length from 6 amino acids to about 50 amino acids.

38. The method of any one of claims 27-36 wherein the antigenic peptide has a
10 length from 6 amino acids to about 20 amino acids.

39. The method of any one of claims 27-36 wherein the antigenic peptide has a length of about 20 amino acids.

40. The method of any one of claims 27-39 wherein the polypeptide is a protein.

41. The method of any one of claims 27-40 wherein the polypeptide is a human
15 protein.

42. The method of any one of claims 27-41 wherein the polypeptide is a naturally occurring protein.

43. An isolated antigenic peptide that is specific for the candidate polypeptide of any one of claims 27-42 that is produced according to the method of any one of claims 27-42.

20 44. An antigenic peptide that is at least about 90% identical to the isolated antigenic peptide of claim 43.

45. An isolated antigenic peptide that is an analog of the isolated antigenic peptide of claim 43.

46. An isolated antigenic peptide comprising a short antigenic amino acid
25 sequence that is identical to at least 5 consecutive amino acids of the isolated antigenic peptide of claim 43.

47. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids of the isolated antigenic peptide of claim
30 43.

48. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 in a sample comprising:

- a) an isolated antigenic peptide according to any one of claims 43-47 and derived from the candidate polypeptide, and
- b) at least one of a reagent or a device for detecting the antibodies.
49. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 43, wherein the antibody was produced using the isolated antigenic peptide of claim 43.
50. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 44, wherein the antibody was produced using the isolated antigenic peptide of claim 44.
51. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 45, wherein the antibody was produced using the isolated antigenic peptide of claim 45.
52. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 46, wherein the antibody was produced using the isolated antigenic peptide of claim 46.
53. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 47, wherein the antibody was produced using the isolated antigenic peptide of claim 47.
54. The isolated antibody of any one of claims 49-53 wherein the antibody has high specificity and high affinity for the candidate polypeptide.
55. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 comprising:
- a) an isolated antibody according to any one of claims 49-53, and
- b) at least one of a reagent or a device for detecting the antibody.
56. An assay for the detection of a candidate polypeptide in a sample, comprising:
- a) providing an isolated antigenic peptide according to any one of claims 43-47,
- b) contacting the isolated antigenic peptide with the sample under conditions suitable and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific for the candidate polypeptide present in the sample, to provide an antibody-bound antigenic peptide, and
- c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the sample contains the candidate polypeptide.

57. The assay of claim 56 further comprising the step of binding the isolated antigenic peptide or the antibody to a solid substrate.

58. The assay of claim 56 or 57 wherein the sample is an unpurified sample.

59. The assay of any one of claims 56-58 further comprising, prior to the
5 contacting, obtaining the sample from a human being.

60. The assay of any one of claims 56-59 wherein the assay is selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an
10 immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.

61. An isolated nucleic acid molecule encoding an antigenic peptide according to any one of claims 43-47.

15 62. The isolated nucleic acid molecule according to claim 61 wherein the molecule encodes a naturally occurring human antigenic peptide.

63. An isolated nucleic acid molecule encoding an antigenic peptide that is at least about 90% identical to any one of the antigenic peptides set forth in claims 43-47.

64. The isolated nucleic acid molecule according to claim 63 wherein the
20 antigenic peptide is at least about 95% identical to the antigenic peptide.

65. The isolated nucleic acid molecule according to claim 63 or 64 wherein the molecule encodes a naturally occurring human antigenic peptide.

66. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of claims 43-47 to genomic
25 DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

SEQ ID NO:	LSID	Gene	Source ID	Sequence	Code	SpeciesName
526	160397	Latrophilin-2	NP_036434.1	<p>MVSSGCRMRS LWFIIVISFL PNTEGFSRAA LPFGLVRREL SCEGYSIDLR CPGSDVIMIE SANYGRITDDK ICDADPFQME NTDCYLPDAF KIMTQRCNNR TQCIIVTGS VFPDPCPGTY KYLEVQYECV PYIFVCPGTL KAIVDSPCTY EAEQKAGAWC KDPLOAADKI YEMPWTPYRT DTLIEYASLE DFQNSRQTTT YKLPNRVDGT GFVVYDGAUF FNKERTRNIV KFDLRTRIKS GEAINYANY HDTSPYRWGG KTDIDLAVDE NGLWVIYATE QNNGMVISQ LNPYTLRFEA TWETVYDKRA ASNAFMICGV LYVRSVYQD NESETGKNSI DYTYNTRLNR GEYVDVFPFN QYQYIAADV NPDNQLYVW NNNFILRYSL EFGPPDPAQV PTTAVTITSS AELFKTIIST TSTTSQKQPM STTVAGSQEG SKGTPPPAV STTKIPPITN IFPLPERFCE ALDSKGIKWP QTQRGMMVER PCPKGTRGTA SYLCMISTGT WNPKGPDLSN CTSHWVNQLA QKIRSGENAA SLANELAKHT KGPVFAGDVS SSVRLMEQLV DILDAQLQEL KPSEKDSAGR SYNKAIVDTV DNLLRPEALE SWKHMNSSEQ AHTATMLLDT LEEGAFVLAD NLEPTRVSM PTENIVLEVA VLSTEGQIQD FKFPLGIKGA GSSIQLSANT VKQNSRNGLA KLVIYIRSL GQFLSTENAT IKLGADFIGR NSTIAVNSHV ISVSINKESS RVYLTDPVLF TLPHIDPDNY FNANCSFWNY SERMTMMGYWS TQGCKLVDTN KTRITACASH LTNFAILMAH REIA YKDGTVH ELLLTVITWV GIVISLVCLA ICIFTFCFR GLQSDRNTH KNLCINLFIA EFIFLIGIDK TKYAIACPIF AGLLHFFLA AFAWMCLEGV QLYMLVEVF ESEYSRKYY YVAGYLFPAT VVGVSAAIDY KSYGTEKACW LHVDNYFIWS FIGPVTIFIL LNIIFLVITL CKMVKHSNTL KPDSSRLNI KSWVLGAFAL LCLLGLTWSF GLLFINEETI VMAYLFTFN AFQGVFIFIF HCAQQKVRK EYKGCFRHSY CCGGLPTESP HSSVKASTTR TSARYSSGTQ SRJRRMWNDT VRKQSESSFI SGDINSTSL NQGHSLNNAR DTSAMDITLPL NGNFNNSYSL HKGDYNDVSQ VVDCGLSLND TAFEKMIISE LVHNNLRGSS KTHNLELTP VKPVIGGSS EDDAIVADAS SLMHSNDNPGLELHHKELEAP LIPQRTHSL YQPQKKVKSE GTDSYVVSQLT AEAEHDHLOSP NRDSLYTSMPL NRDSYPYSP SPDMEEDLSP SRRSENEIDY YKSMPLNLGAG HQLQMCYQIS RGNSDGYIIP INKEGCIPEG DVREGQMQLV TSL CGGCGCTGG GAGACAGCGA GGCAGAGCT GGGGTTTGT GCGAGAGCCA CGGCGGGGGC TGGGGGAGT GGCAGGCTG GCTGAAGGCT GCGCTGCTGCA ACCITGAAGA GCGGCTGCTGAT TGAAGAGGCA GAGGACAGGGA GACCGGCTGCG ATGGCAGAGC GCGGGCCCCG CGGCTGCGCC GGGCGGGCCC GCGTGGCCG AGCGCGCGGA GAGGCGGGGGC TGCCTGCG CGTCCATGGA GCAAGCGGAA GGGCGAACT CGGGAGCGCC GCGTCCCTGC GCGGCTGCTG GCGGCTGCTG AAGGGGCGGA GCGCGCGCGG ACGCGGAGG AAGAGACCCC CGCTCCAGCC CGCAGGCGCG CCGCGGGGGC TGGCGGGGGC ACATCGGAGG GCAAGCGAGC GAGCAGCGCC GCGGAGAGAGG CGGCGCGGGG AGGCGGGCGCG AGCAATGCCG GGGCGGGCAG GCGCTGCTG CTCTCGCC CTGGGGCTGC TCGGCTGCGC CGGGCGGAGC GCGCTGCTG GCGGCGCGCC TGCAGGCTGCG ACGGCGAGCG TCGGGTGAGC TGCCTCGGGA AGGGGCTGAC GGGCGGCGCC GAGGGGCGCA GCGCTTAC CCAAGCGCTG GATATGTA TGAACAAT TACTAGTTC CAGAGAGATG CATTAAAGA CTCTCTTT CAGAAGAGC TACAATGGC GGGCAACGAC CTCTCTTA TCAACCAAAA GGCCTGCTG GGGTGAAG AACCAAGT TCAAGCTC CAGAATAATC AGTTGAAGAAC AGTACCCAGT GAAGGCCATC GAGGGGCTGAG TGTCTTGCG TCTTGCGT TGAATGCCA CCAATLACC TCAATGCCG AGGACAGTT TGAAGGACT</p>	P	Homo sapiens
527	160411	G Protein-Coupled Receptor GPR48	NM_018490		A	Homo sapiens

528	160411	G Protein- Coupled Receptor GPR48	NP_060960.1	<p>atgttattaa taaaalaga agaagaaga alaaagctta gtctgtgtc tttaaaatt aaaaatttta ctgtattcc atctatgggc ttiagacctt tiactgggtg gactgtataa gttataatg ttcaatagt tttttgaca gtgtgclaaa tcaatagcaa accactggcc atatagttt ttctgaatat actaaaaaa tccagctaga ttgcagttta ataataaac tgaalact gtgcalataa tgaatttta tctatglaa altatttlla gaacacaagt tgggaaagt ggcttcgtt catttggtt aattaaagt acctctaaa ctatagggc tgccagtagc agactgttaa attgtggtt atatacttt tgcattgtt atagctttg ttgtacattg tcatglaa aaaaacagaa tctttgata tcaaatcat gtatgttga taaatggg gaaggattta ttacagttg gtgtaat ttgaaggcca actattaca agtttaaaa attgatcal tgalattia cacatctgt aatatataa tcaaacgtg gaagaaact ccaattaaa aggttttic caaatctag gttatgaat attttcat ttattcatt aaaaactaga ataacagata taaaagtg ttaattctg tctatagg tatgaatac aatattgac tcatgtttt gaattattaa agtttctaga aagcaaaaa a</p> <p>MPGPLGLLCF LALGLLSAG PSGAAPPLCA APCSCDGD RR VDCSGKGLTA VPEGLSAFTQ ALDISMNNIT QLPEDAFKNF PFLEELQLAG NDLFSFIHPKA LSGLKELKVL TLQNNQLKTV PSEAIRGLSA LQSLRLDANH ITSVPEDSFE GLVQLRHLWL DDNSLJEVPV HPLSNLPTLQ ALTLALNKIS SIPDFAFNL SSLVVLHLHN NKIRLSQHC FDGLDNL ETL DLSYNNLGEF PQAIKARPSL KELGFHSNSI SVTPDGAFDG NPLRLTHLY DNPFSFVGN SASHNLSDLHS LVIRGASMVQ QFPNLTGTVH LESLTLTGTK ISSIPNNLCQ EQKMLRLDL SYNNIRDLPS FNGCHALEEI SLQRNQYQI KEGTFQGLIS LRLDLSRNL IEIHSRAFA TLGPITNLDV SFNELTSFT EGPNGLNQLK LVGNFKLKEA LAAKDFVNL SLSPYAYQC CAFWGCDSA NLNTEDNSLQ DHSVAQEKGT ADAANVTSTL ENEHSQHII HCTPSTGAFK PCEYLLGWSM IRLTVWFIL VALFFNLLV LITFASCTSL PSSKLFIGLI SVSNLFMGYI TGILTFLDV SWGRFAEFGI WWETGSGCKV AGFLAVFSSE SAIFLLMLAT VERSLSAKDI MKNGKSNHLK QFRVAALSAF LGATVAGCFP LFHRGEYSAS PLCLPFTGE TPSLGFVTIL VLLNSLAFLL MAVIYTKLYC NLEKEDLSEN SQSSMIKHVA WLIFTNCLFF CPVAFFSFAP LITAISISPE IMKSVTLIFF PLPACLNPLV YVFFNPKFKE DWKLLKRRVT KKS GSVSVSI SSQGGCLEQD FYDYDCMYSH LQGNLTVDCD CESFLLTKPV SKHLIKSHS CPALAVASCQ RPEGYSWDCG TQSAHSDYAD EEDSFVSDSS DQVQACGRAC FYQSRGFPLV RYAYNLPRVK D</p>	P	Homo sapiens
529	160435	LS160435 Receptor	AX147830	<p>aactgggaagg gacagcgtct ggcgcacag aacacttct caagcacttt gagtgaccac ggcttgcaag ctggaggcig gcccccgag tccgggctc tggagcacgg ccgtcgaact aagcgttga tctgtttacc tggagacct ctgagctc accttact tctgcccgtc ctctgcaca gagcccgaggc gaggaacctt ccaggatgca ggtcccgaaac agcacggcc cggacaacgc gacgtgcag atgtgcgga accggcgat ccggtggcc cgtccgtgg tttactcgtt gggtggggcg gtcagcalcc cgggcaact ctctctctg tgggtgctgt gcccggcgtt gggggccaga tccccgtgg tcatctcat gatcaactg agcgtcacgg acctgaltgt ggcagagcgtg ttgccttcc aatclacta ccatgcaac cgcacccact gggtatcgg ggtgtcgtt tgaacgtgg tgaaccgtg cttttacgca aacatgatt ccagcatctt caccatgacc tgtatcagcg tggagcgtt cctgggggic cgttaccgc tcatcccaa ggcctggcgc cgcgtcgtt acgcgtggc cgcgtgtgca gggacatggc tctgtctct gaccgcccgt tccccgtgg cgcgaccca tctacatcac ccgtgtcag ccc'tgggcat catcaactgc ttcgacgtcc tcaagtggac gatctccc agcgtggcca tgtggggcgtt gttctcttc accalcitca tctgtcgtt cctatccc ttcgtgaltca ccgtgtgctt ttacacggcc accalcitca agctgttgcg cacggaggag gcgcacggcc gggagcagcg gaggcgcgcg gtggggcgtt ccgcggtggc ttgtcactt</p>	A	Homo sapiens

530	160435	LS160435 Receptor	LR80	<p>gcttcgcccc caacaacttc gtagctctgg cgcacalcgt gtagccgccctg ttctacggcca agagctacta ccacgtgtac aagctcacgc tgtgtctcag ctgcctcaac aactgtctgg acccglttgt ttattacttt gctgtccgggg aattccagct ggccttgcgg gaaatttgg gctgtccggccg ggtgtccaga gacacctggg acacggccggc cgaagagccct ttctccgcca ggaaccacgtc cgttcgctcc gtagccggctg cgcacccctga aggtatgtgag gtagccacca ggcggccgctt ccagagggcag gtaggtgtgt tctgagctcc gggggcgccag ctggagggcgc cggggggcga gcttggagga tccagggggc gtagggggc ccacgggtgc agaggttctag gtagaacagc tgcgttgc cagacactg cagggggcgg gtagggggc gtagggggc gtagggggc ttattctc ccagggcactg cagagggcacc ggttagggag ggtctccagg ctactcag gtaggggaaa caagcaagc ccagcagggc acaggggtgt tgtatctg cagaggggtg cctgcctct cgtgtcagg gtagcgtg gtagccagc ccgggctaat ttgttatt tttttagag agctggggctg tcaccccga gctcttaga cactctcac accgtccat accggggat gtagattcaa ccagccccc cgcctacccg actgggttc tggatattct cgtgtggcga acgtggggc ccatcccg cctctcc tgtgacalc gtccttagc acactgtcc ataccgggg aggtatttc aaccggccc accgctacc cgtctgggt tctggatc cctgtggc gtagctggc cccattccc agctcttc cctgtcga tgcctctta gttgtgtc tggccttc cattcttc cagggggtt ggtctccga gcccgggca cgcgaatt tctgttatt tcatcagg gtaggtgt gtaggtgt ggaatttc tttagga ggcgtgggg cctgtcagg ttagctact tccgtgcca cttccctca cacacacc cccctggc ggaattc</p>	P	Homo sapiens
531	160889	Platelet Activating Receptor Homolog (H963)	NM_013308	<p>MQVPNSTGPD NATLQMLRNP AIAVALPVVY SLVAAVSIPG NLFSLWVLCR RMGPRSPSVI FMNLSVTDL MLASVLPFQI YYHCNRHHWV FGVLLCNVVT VAFYANMYSS ILTMTCSIVE RFLGVLYPLS SKRWRRRRYA VAACAGTWLL LLTALSPLAR TDLTYPVHAL GIITCFDVLK WTMLPSVAMW AVFLTFIL LFLIPFVTV ACYTATILKL LRTEEAHGRE QRRRAVGLAA VLLAFVTCF APNPFVLLAH IVSRLFYGS YYHVYKLTLC LSCNNCLDP FVYFASREF QLRLREYLGC RRVPRDLDLT RRESLSART TSVRSEAGAH PEGMEGATRP GLQRQESVF gaaatggcc aagagggct agtctct gtagctgc agcaggct gctgagggc acagagga gccacaggt ttggaggt tttagat gattctaga ttagctg tccctcaaga tgaacacag ttgctctc tgcacaca ccttggagc ttagaaatt ttcttca atagcagc atcttact tccctcaaga tgaacacag ttgctctc tgcacaca ccttggagc ggagccatc agtatttt ttattgt ttctgt ggaatttg gtaggtgt tgcacacgt gctttatc agaggaatc gaalcacag gtaggaga tctactat taattgtt acagccgatt tctgtctac tctggcata ccagtgaaaa tttgttga ctgggtgt gacatttga agcttggc attccagc caagtaacag cctgctcat ctatcaat atgtattt caattct cttagcatt gtagcatt accgtgt ttagctaga cagcagc cagcagc agatcagc aatacaaga cccggattg ccaaatgat atcaacgtt gtaggctat ttagctt talaatgtt ccaataga gattccat caagacalc aaggaaga caaagtgtt gtaggag ttataaagg aattggag aattggcatt ttctgtcaca attcatalg ttagcata tttaaat tctagccat catttaala tcaatgct ttagatg acagctcag agaacacag ataatgaaa ttacccaal gtagaagg ctctcata calacttta gtagcagc gtagcagc atgtgtt ccttccaca ttgtcgaat cccgtatcc ctagccaga cagaatgat aactgagc tcaacaga ttcatct caaagccaaa gtagctac tctgtggc tgtgtgac cgtgtgtt atctatct gtagctac cctcaaaag cctccgc aaggtgct gtagcttt cctaccaa agagaccaa gtagcaaaa aaaaataag atgtgaaat atgtcataa agacaggt ttgtgtc ccaattgt cctactgga ccaataagt aattatgt ttgaaga aaaaaaaa aagggcc gc</p>	A	Homo sapiens
532	160889	Platelet Activating Receptor	NP_037440.1	<p>MTNSSFFCPV YKDLPEPTYF FYLVFLVGII GSCFATWAFI QKNTNHRCSV IYLNLLTAD FLTLALPVK IVVDLGVAPW KLKIFHCQVT ACLIYNMYL SIIFLAFVSI DRCLQLTHSC KTYRQEPGF AKMISTVVWL MVLIMVPNM MIPIKDIKEK</p>	P	Homo sapiens

[illegible]

535	161214	Galanin Receptor GalR3	NM_003614	<p>GKRRSLDGS ESAKTSLOVT NLVSAIVFLY DSLTGVPIV VSFSLKSDS APPWMVLAVL WCSMAQTLL PSFIWSCERY RADVRTVWEQ CVAIMSEEDG DDGGGDDYA EGRVCKVRFD ANGATPGSR DPAQVKLLPG RHMLFPPLER VHYLQVPLSR RLSHDETNIF STPREPGSFL HKWSSDDIR VLPQSRALG GPPEYLGQRH RLEDEDEEEE AEGGGLASLR QFLESGVLGS GGGPRGPGF FREEITTFID ETPLSPITAS PGHSPPRRP LGLSPRRLSL GSPESRAVGL PLGLSAGRRC SLTGGEESAR AWGGSWGPGN PIFPQLITL</p> <p>tocacgggic ccgctcaglc gggagaglc lgalgcccac aacattcac tggacagccc agggagggic ggggcccggic cagtgccgt ggtcttgcc ctaacttcc tgcggggcac agtgggcaal gggcgggic tggcaggtc cctgcagct ggcccgaglc cctggcagga gctgggagc accagggacc tggatcct caactgggc gttgctgacc tctgctcal cctgctgc gttccctcc agggccacc clacagctc galgccggc tcttggggc cctgctgc aaggccgic accgctcal clactcacc algtacgcca gcagcttacc gctggctgct gttccgic acaggtacct gggccgic cacccgctc gctcgggc cctgcgacg ccgctaacg ccggccgc agtggggc gttgggic tggcggcgt cttccggc cctactca gclactagg caccggcg laccggcg tggagctc tggagccg gttggagc cgcccgcc gctcggac gttggccct tgcctggc clactgctc cctggggc tgggagct gttggagc cgccagctc gctcctgic gggcccgic gttcccgic gctcggcg gggccggc gttggagc gttggagc cgccggggc gctcggc cgtggcgcc gctcagcg cctcggcg gttccgcca cggctcalt cgtgctct ggtagggc cttgctc agccggcca cctagctc cgtccggc tcaactgc tggcctacg caactcgc ctcaaccg tggctacg gttccctc cgtccctc gggccgtc cgtccgctc tggccgctc gttccgctc ccggccag gttccgctc cgtccgctc cgtccgctc gttccgctc gttccgctc gttccgctc ctagcgggc gttcggc gttcggc gttcggc gttcggc gttcggc gttcggc gttcggc gttcggc ggccggc aatccgct gctcggc cgtccgct</p> <p>MADAQNISLD SPGSVGAVV PVVFALIFLL GTVGNGLVLA VLLQPGPSAW QEPGSTTDLF ILNLAVADLC FILCCVPFQA ITYTLDAWLF GALVCKAVHL LIYLTMYASS FTAAVSVDR YLAVRHPLRS RALRTPRNAR AAVGLVWLLA ALFSAPYLS YGTVRYGALE LCVPAWEDAR RRALDVATFA AGYLLPVAVV SLAYGRTLRF LWAAVGPAGA AAEEARRRAT GRAGRAMLAV AALYALCWGP HHALILCFWY GRFAFSPATY ACRLASHCLA YANSCLNPLV YALASRHFR RFRRLWPCGR RRRHRARRAL RRVRPASSGP PGCPGDARPS GRLLAGGGQG PEPREGPVHG GEAAARGPE</p> <p>algccgclga ccccgagc cccgagc tccctggc tggccggcc cggcagctc gttccggagc cgtcggcgg ccccaacga accccaaca gctcctggc cagcccgacc gggccagct ccttggagga ccttgggccc agggcaca ttgggactc gttcggc algccgagc tggcgctg gggcagcacc taccagctc gttcagctc cgtcctc cgtcggc cctcagla cgtcagc gttcagc cgtcggc cgtcggc cgtcggc cgtcggc cgtcggc cgtcggc taccgcca agggagggc cttcgggag gttgggctc gttcggctc cgtcggctc tttcggc tgcagccag cactcag cttacgcca tggcagc gttcagc gttcagc gttcagc gttcagc gttcagc cgtccagc gttcagc cttcggc cttcggc cttcggc cttcggc cttcggc cttcggc cttcggc cgtcggc gttcagc gttcagc cttcggc cttcggc cttcggc cttcggc cttcggc cttcggc tctcctc caccagc gttcggc gttcggc gttcggc gttcggc gttcggc gttcggc gttcggc tgcagcggc cctcagc gttcggc gttcggc gttcggc gttcggc gttcggc gttcggc gttcggc</p>	A	Homo sapiens
536	161214	Galanin Receptor GalR3	NP_003605.1	<p>MADAQNISLD SPGSVGAVV PVVFALIFLL GTVGNGLVLA VLLQPGPSAW QEPGSTTDLF ILNLAVADLC FILCCVPFQA ITYTLDAWLF GALVCKAVHL LIYLTMYASS FTAAVSVDR YLAVRHPLRS RALRTPRNAR AAVGLVWLLA ALFSAPYLS YGTVRYGALE LCVPAWEDAR RRALDVATFA AGYLLPVAVV SLAYGRTLRF LWAAVGPAGA AAEEARRRAT GRAGRAMLAV AALYALCWGP HHALILCFWY GRFAFSPATY ACRLASHCLA YANSCLNPLV YALASRHFR RFRRLWPCGR RRRHRARRAL RRVRPASSGP PGCPGDARPS GRLLAGGGQG PEPREGPVHG GEAAARGPE</p> <p>algccgclga ccccgagc cccgagc tccctggc tggccggcc cggcagctc gttccggagc cgtcggcgg ccccaacga accccaaca gctcctggc cagcccgacc gggccagct ccttggagga ccttgggccc agggcaca ttgggactc gttcggc algccgagc tggcgctg gggcagcacc taccagctc gttcagctc cgtcctc cgtcggc cctcagla cgtcagc gttcagc cgtcggc cgtcggc cgtcggc cgtcggc cgtcggc cgtcggc taccgcca agggagggc cttcgggag gttgggctc gttcggctc cgtcggctc tttcggc tgcagccag cactcag cttacgcca tggcagc gttcagc gttcagc gttcagc gttcagc gttcagc cgtccagc gttcagc cttcggc cttcggc cttcggc cttcggc cttcggc cttcggc cttcggc cgtcggc gttcagc gttcagc cttcggc cttcggc cttcggc cttcggc cttcggc cttcggc tctcctc caccagc gttcggc gttcggc gttcggc gttcggc gttcggc gttcggc gttcggc tgcagcggc cctcagc gttcggc gttcggc gttcggc gttcggc gttcggc gttcggc gttcggc</p>	P	Homo sapiens
537	161221	Urotensin-II Receptor (GPR14)	NM_018949	<p>algccgclga ccccgagc cccgagc tccctggc tggccggcc cggcagctc gttccggagc cgtcggcgg ccccaacga accccaaca gctcctggc cagcccgacc gggccagct ccttggagga ccttgggccc agggcaca ttgggactc gttcggc algccgagc tggcgctg gggcagcacc taccagctc gttcagctc cgtcctc cgtcggc cctcagla cgtcagc gttcagc cgtcggc cgtcggc cgtcggc cgtcggc cgtcggc cgtcggc taccgcca agggagggc cttcgggag gttgggctc gttcggctc cgtcggctc tttcggc tgcagccag cactcag cttacgcca tggcagc gttcagc gttcagc gttcagc gttcagc gttcagc cgtccagc gttcagc cttcggc cttcggc cttcggc cttcggc cttcggc cttcggc cttcggc cgtcggc gttcagc gttcagc cttcggc cttcggc cttcggc cttcggc cttcggc cttcggc tctcctc caccagc gttcggc gttcggc gttcggc gttcggc gttcggc gttcggc gttcggc tgcagcggc cctcagc gttcggc gttcggc gttcggc gttcggc gttcggc gttcggc gttcggc</p>	A	Homo sapiens

Homo sapiens

P

NP_061822.1

Urotensin-II Receptor (GPR14)

161221

538

ctggggctgc ttctgacct tctggctgtg gcagctgtct gccagttacc accaggcccc gctggcgccg cggacggcgc
gcatcgtcaa ctacctgacc acctgacct cctacggcaa cagctggcc accctctcc tctacagct gctacacagg
aactaccgc accacttgc cggcgctg cggggcccg gcagcggggg agggcggggg cccgttccct ccttgcagcc
ccggccgc ttccagcgt gttcggcg ctcctgtct tcttgcagcc caccggccac tgacagctc gttctggccc
cagcggccc ggccgacct ggcggagg gttccaggc cccggcgtg
MALTPESPSS FPLAATGSS VPEPPGGPNA TLNSSWASPT EPSSLEDLVA
TGTIGTLLSA MGVVGVVGN YTLVTCRSL RAVASMYVYV VNLADLLY
LLSIPFIVAT YVTKWHFGD VGCRLVFLGD FLTMHASIFT LTMSSERYA
AVLRPLDTVQ RPKGYRKL LA LGTWLLALL TLPVMLAMRL VRRGPKSLCL
PAWGPRAHRA YLTLFATSI AGPGLLIGLL YARLARAYRR SQRASFRRAR
RPGARALRV LGIVLFWAC FLFWLWQL AQYHQAPLAP RTARIVNYLT
TCLTYGNSCA NPFLYTLTR NYRDHLGRV RGPSSGGRG PVPSLQPRAR
FQRCGRSL SCSQPQTDLS VLAPAAPAR APEGPRAPA

Homo sapiens

A

NM_006056

G Protein-Coupled Receptor GPR66

161249

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atggcttgca atggcgtgc ggccaggggg cacttgacc ctgaggacti gaaccttgact gacgaggcac tgagactcaa
gtacctgggg cccagcaga cagagctgtt catggccalc tggccacat acctgtgat ctctgtgtg ggctgtgtg
gcaatgggct gacctgtg gctatctgc gcccaaggc catggcagc cctaccaat actacctct cagctgtg
gtgtcgacc tgcgtgtgt gctgtggg cggccctgg agctctatga gtagtggcac aactacct tctgtgtg
cgttggggc tgcatttc gcaactact gtttagatg gcttgcctgg cctcagttct caactgact gcttggg
tggaaagctc tggggcgtg gtgcaccac tccaggccag gtccatggg acggggggc atgtggcgcc agtgtgtggg
ggcgtctggg gcttgccat gcttgcctc ctggccaaca ccagctgtga cggcatccgg cagctgtcacg tgcctgtggc
gggccaagtg ccagactcag ctgttgcac tgcgttcgc ccaaggccc tctacaact gtagtggcac accacggcg
tgctctct ctgcctggcc atggccalca tgaagctgt ctacctgtc atggcgtgc gactgtggcg gtagaggtctg
ctgtcatgc agggggccaa ggccaggggc tctgcagcag ccagggtccag ataccctgc aggtccagc agcagatcg
ggccggagga caagtgacca agatgtctgt tgcctgggtc gtagtgttg gcatctgtc ggcccggtc cagccgacc
ggctcatgt gtagcgtgtg tccagtgga cagatggct gcaocggcg ttccagcag tgcagttcat ctccggcalt
ttcttacc tgggctggc ggccaacccc gtgtctata gcttcatg cagccgttc cagagagact tccaggaggc
cctgtgctc ggggctgt gcatggct cagaacccc caccgtcc accagctcag caggatgacc acaggcagca
ccctgtgtga tggggctcc ctgggcagct gggtccaccc cctggctggg aacgatggc cagaggcgca gcaagagacc
gatcatct ga

Homo sapiens

P

NP_006047.1

G Protein-Coupled Receptor GPR66

161249

540

MACNGSAARG HFDPEDLNLT DEALRLKYL PQQTELFMPI CATYLLIFVV
GAVGNGLTCL VILRHKAMRT PTNYLFLSLA VSDLLVLLVG LPLELYEMWH
NYPFLGVGG CYFRILLFEM VCLASVLNVT ALSVERVAV VHPLQARSMV
TRAHVRRLV AVWGLAMLC LPNTSLHGIR QLHVPCRPV PDSA VCMVLR
PRALYNMVVQ TTALLFFCLP MAIMSVLYLL IGLRLRRL LLMQEAQGRG
SAAARSRYTC RLQQHRRGR QVTKMLFVL VVFGICWAPF HADRVMWVSV
SQWTDGLHLA FQHVHVISGI FFYLGSAANP VLYSLMSSRF RETFQEALCL
GACCHRLRPR HSSHLSRMT TGSTLCDVGS LGSWVHPLAG NDGPEAQQET DPS
atggtaacc ttgcaataa cactgaaca ttcaagatgg gtagcaacag taccagcact gcttgagatt actgaatg
cactaatgt aaatttcaat actccctcia tgcacccac tatalctca taticcalt tggctctg gctaacagtg cagcctgtg
gggtctgtgc cgttcatca gcaagaaaaa taaagccalc attttcatga tcaaccttc tgggtgtgac ctgtctatct

Homo sapiens

A

NM_014499

Purinergic Receptor P2Y10

161251

541

542	161251	Purineric Receptor P2Y10	NP_055314.1	<p>acccttcgg attactatt acatcagca ccactggcct ttccagagag ccctttgctt gccttgcttc taactgaagt atccaacat gtaigccagc atttgcttcc tgcgttgcat cagcttcaaa aggttgcttt ttctotcaa gcocttcagg gccagagagct ggagagctag gtacgaltg ggcatcagtg ctgccatcg gtagcttgig ggagctgcti gttgccatt tccatctcg agaagcacag actiaaaca caacaagtcc tgccttgctg altctiggata caagcaaatg aatgcagtg cgttgctggg gattatata gttgctgagc ttgcaggatt tggatocca gfgatcaca tgcaltgag taactggaaa actactatct ccttgagaca gccaccaatg gctttccaag ggatcagta gaggcagaaa gcatcgagg tgggtgical ggtgtgca gcttctca tctgtctac tccatcat ataatctta tttttacac calggtaaaag gaaacacac ttacgagtg tccgttgic ggaatcgag tgaattoca cctttttgac ctgtgcttg caagtctg ctgcttttg gatacaatc ttattacti tatggctica ggtttgig accaataac ccgccatggc agttctgiga ccgctcccg cctcatgagc aaggagagtg gttcatcaat gatggctaa</p> <p>MANLDKYTET FKMGSNSTST AEIYCNVTNV KFQYSLYATT YLIFIPGLL ANSAALWVLC RFISKKNKAI IFMNLVAD LAHVLSPLR IYYYISHHP FQRALCLLCF YLKYLNMYAS ICFLTCSLQ RCFFLLKPER ARDWKRRYDV GISAAIWIV GTACLPPIIL RSTDLNNKS CFADLGYKQM NAAVALVGMIT VAELAGFVIP VIIAWCTWK TTISLRQPPM AFQGISERQK ALRMVFMCAA VFFICFTPYH INFIFTMVK ETIISCPV RIALYFHPFC LCLASLCCLL DPILYYFMAS EFRDQLSRHG SSVTRSLMS KESGSSMIG</p>	P	Homo sapiens
543	161293	G Protein- Coupled Receptor Ls161293 [Herpes virus]	NP_042597.1	<p>MATTSATSTV NTSSLATMT TNFTSLTTSV VTTIASLVPS TNSSDDYYDD LDDVDYEESA PCYKSDTTRL AAQVVPALYL L VFLFGLGN ILVVIIVRY MKIKNLTNML LLNL AISDLL FLLTLFWMH YIGMYHDWTF GISLCKLLRG VCYMSLSQV FCILLTVDR YLAVVYAVTA LRFRVTTCGI VTCVCTWFLA GLLSLPEFFF HGHQDDNGRV QCDPYYPEMS TNVWRRRAHVA KVMLSLILP LLIMAVCYV IRRLLRPS KKKYKAIRLI FVMVAVTFV WTPYNIIVLL STFHATLLNL QCALSSNLDK ALLITKTAV THCCINPVY AFVGEKFRRH LYHFFHTYVA IYLCYIPFL SGDGEKEGP TRI</p>	P	Equine herpesviri s 2
544	177147	Neuromedin K Receptor-Like (NK-4R)	NM_006679	<p>ggcagaaacc cgaatgaccg cggccacggc ggctcccgct cctgcgcgcgt cctgcggggc gcgctgggct ccggggcactc gggcttgccg ccactggct cggccgcggg gaactcagc gctggggccgg gctggggggg ggcgcgcgcg gccgcgcctga ggaaactcag ctctcccg gccccgaccg cgtcccgct cccggcccg tegtggagc cctgcgcgcg ccccgggccc ggccaccgt tcttcagcc gccctggggc gggcgctct ggtgcctggc ctacggggc gggggggcct tggcgggct cggcaactc ggggtgact ggaatgctt ggccacaa cggatggga cggtaacca ctctctc tggaaactgg ccttcggcga cggcccgatc acggcctgg caactcact taacatcact taacatcact taacatcact taacatcact ggcaactact gccgttcca gaactctc ccaatcag ccgtgttc cagcaatcact taacatcact taacatcact ggacagatc atggccatta tgaacccct gaagccacag ctgtctgcca cggccacccg gactgctatt ggaagcaict ggattctggc attctact gcaatctc agtgtctga ttccaaatc aaagatcag cagcccgatc tcttgctac gtagcgtgagc cagaaggctc aagccaacat ttacatcact acatgact calgtctg gtagctctt ttcttgct calcatgggc atcaactaca ccatagttgg aatcagctc tggggagggg agatccacag agacaccic gacaaglac aggaagcagct gaaaggccaag cggaaagggtg taaaatgat gatactgt ggtgtgact tggccatc ctggcgcc taacatcact atctact caccggcact taacagcag tgaacagtg gaaatcact cagcaggtct acctggcag ctctggcag cttctggctg gccatgagct cgaacatga caacccatc atctactgt gttgaataa gaaatttct gctggctca agaggccctt ccgtctgggc ctttactc agcttccag ctacagcag ctggagctca aagccaacag gctccacca atggccaaga gcaagctata cacagtgaca agaatggagt ccatggagct ggtatcagc tcaacagat ggggaagatc caggttccagt caacagaaag gaggggagac caggaagcga</p>	A	Homo sapiens

ggcctcaatg tctgctcccg caggaaactcc aagctccacct ccaccacagc cagcttcgig agctctctcc acalgtcggg
 ggaaggaagg tctgattc tcttggggg caaggccact gcaaggcaacc ctctctgt cactctgt gctctcact ccttggaagc
 tgaaggacag ttttaaga gctacgcta caataagaca gattgacat aaataaaca aaataaatac taagataiga gctctccccc
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 cctcttag tgcagaacc aaataact tcaagatca gcataaagc aatallatcca tgaacagga tggctatg ttacccgat
 attaatctcc caatctgt tggagccaa agtcaaaat attaggt tagtctaaac agcttaaca calgaagt agttgaaat
 ctttatga caccataa caacaag tagatggcac aataatgg cagatata caocagcca atgaatgtaa
 caatcaag aagtaaat aaatattc taacagga taagtgtgt ttccaggt cctagaata acctaaata atcttgaaa
 catgtgca cttttga taacaaatg tatcaat tagaatcaa tgtttgaat gtttaacat gtaacggga tggcttca
 aaattcat agtcaagccc taacaaagta tatctgaat acalactt gaaacttca tgcattacg aaatcagc talggggtt
 ctgaagaaa aatagtagct taatctgt ttgttctgt ttgttgaat ttittcta gtagatgt tggctctg ctacggagc
 atcadctt ctatagtc agaaatctg aggtccaggt cactctt aaatggtta gaaatctga calcatnac tcaatgca
 tgaatttaa actaagatt atalalata atttcaag tcaagaaatg taagcaatga cagtaaaag aagtaaaag gctaaaggt
 agcccttg tctgaattc gaagctaaa agtatgaat gatgccatg cagagccgt ttatgggt cctgtgaggt aaatcagc
 caggtttc acattlgcca aggtctaga gcaatggct ccaatggcg tcaatggc tcaacgac caggtccatc ttctctta
 ttgcaatc aaactatc aggaacatga gcaataggt acaatct acatctt aggtgtat aaattgaat cagcaagaca aaatctaa
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 tggagccag tctagcttt tttagtgt tcaatgtgt gtagatgt aggtatgatt tccactcc aggtgacatt tctgacccag aagccacat
 taccgttca ggaagtaaat ctgaaatct ctgcaaaa gaaatctggc caatctaaa gttccggcg ccttagaagg
 cacaacaag accaagagc ttatgata acctaaca caacaataa atgaataac caacataatg tactcaaga
 ttggatgg atttga tgcagaatt cccagaac ctgaaatc gttctgt tgaat aggttgaat aatgaagaa aatcaggtg
 ttaaaacat tcaactaca gtaacat gtagttcatt ttctttat ggtgtgacag aagtaagga aatcaggtc aactggcc
 atgaagaaa aatctgac atctcact gtagggcaaac aggaatggag aatcactt aatggagctg tacaagga
 ttatgtgt gattat atactatg aaatctgca gaaagaaat calatata aattgtag gcaatgata aagtattt
 caagtgtg aattatg atactatg aatctcca cttctgata tggccaagt tttagaaag tttaaloca agttttat

545	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	<p>ttaaatlatat taaataatcat atgaaaaat MASPAGNLSA WPGWGWPppA ALRNLTSPPA PTASPPAPS WTPSPRPpGA HPFLQPPWAV ALWSLAYGAV VAVAVLGNLV VTIWVLAHKR MRTVTNSFLV NLAFADAAMA ALNALVNFTY ALHGEWYFGA NYCRFQNFEP ITAVFASIYS MTAIAVDRYM AIDPLKPRLL SATATRIVIG SIWILAFLLA FPQCLYSKIK VMPGRITLCYV QWPEGSRQHF TYHMIVIVLV YCFPLLIMGI TYTIVGITLW GGEIPGDTCD KYQEQLKAKR KVVKMMIIVV VTFaicwLpY HIYFILTAY QQLNRWKYIQ QVYLASFwLA MSSTMYNPll YCClnKRFRa GFKRAFRWCP FIHVSSYDEL ELKATRLHPM RQSSLYTVTR MESMSVVFDs NDGDSARSSH QKRGTRDVG SNVCSRRNSK STSTTASFVS SSHMSVEEGS</p>	P	Homo sapiens
546	177168	Cysteinyl Leukotriene CYSLT1 Receptor	NM_006639	<p>atggatgaaa caggaaatci gacaglatct tclgccaat gccatgacac tatgagac ttcgcgaatc aagtgtatc caactgtgac tctatgatct ctgtgtgagg ctcttggc aalggcttg tgcctatgt cctcataaaa acctatcaca agaagtcagc ctccaagta taccagatua atttagcagt agcagatcia ctgtgtgt gcaactggc tctcgtgtg gctattatg ttcaaaaagg calttggctc tttggtagct tctgtgcg cctcagcaoc tatgctttgt atgcaaoct ctatgtagc atctctctta tgcagccat gagcttttc cggtagcattg caatgtttc tccagtcag aacattaatt tggttacaca gaataaagoc aggtttgtgt gtagaggtat ttggatttt gtgatttga ccagtctcc attctaatg gccaaaccac aaaaagatga gaataaataat accaagtgct ttgagcccc acaagacaat caaactaaaa atcatgttt ggcttgcat tatgtgcat tttgttgg cttaatcct ccttttgta ttataattg ctgttacaca atgacattt tgaacttact aaaaaatca atgaaaaaa atctgtcaag tcaataaag gctataggaa tgalcatggt cgtgaccgt gcccttlttag tcaatltcat gccataatcat attcaagta ccaatcaoct tcaatttta cacaatgaaa ctaaaccctg tgattctgtc ctagaatgc agaagtcctg ggctalaacc ttgtcttgg ctgctlcaa ttgtgtctt gacccctcc tatattct ttctgggggt aactttgga aaagcgtgtc taccatcaga aagcattctt tgcacagct gacttatgta cccagaaaga aggcctcttt gccagaaaaa ggagaagaaa tatgtaaagt atag MDEtGNLTVS SATCHDIDD FRNQVYSTLY SMISVVGFFG NGFVLVYLIK TYHKKSafQV YMINLA VADL LCVCTLPpLV VYVYHKGIWL FGDFLCRLST YALYVNLYCS IFFMTAMsFF RCIAIVFPVQ NINLVTQKKA RFVCVGIWIF VILTSSPFLM AKPQKDEKNN TKCFEPpQDN QTKNHVLVLH YVSLFVGFII PFVliIVCYT MIILTLKKs MKKNLSSHKK AIGMIMVvTA AFLVSFMPYH IQRTHLHFL HNETKPCDSV LRMQKsVVIT LSLAASNCFF DPLL YFFSGG NFRKRLSTFR KHSLSsVTYV PRKKASLPEK GEEICKV</p>	A	Homo sapiens
547	177168	Cysteinyl Leukotriene CYSLT1 Receptor	NP_006630.1	<p>ccacgcgtcc gcggctgca cggctgcac ccgacggcgt caggctccgg ctctctcc ccctgagcag ccgcgtcgoc ggccccactg ggctcggatc cggccccggc cccctcggca ccgcctgctc tggccccggc cccggccccg cggacocatgc gcttggggccc ccagggggaa accgagaccg gccaaaggcc cgcataagcgg aggtctcccc ggcccccccc ctccccggccc ccagctctc ggccggcgcc ctgcgccggc tccggagoc gcgtgagcct gcggggggccat ggagcgcggc ccgcccggacg ggccgctgaa cgtctcgggg gcgttggcgg gcgatgcgg gcggcggggc gggttctggc gcttctggc agccctggacc gggggtctgg ccgcgtcat ggccgtctc atcgtggcca cgggtctggg caacgcgtcg gctatgctg cctcgtggc cgactcagc ctccgaccc agaacaact ctctcgtc aaoccgcca tctccgacti cctcgtcgcc gccctcgtc tcccactgta tgaocctac gtagctgacag gccgctggac ctccggccgg ggccctcgtc agctgtggct gtagtggtag taoctgtgt gcaoctctc tgcctcaac atcgtgcta tcaagctacga ccgctctcgt tccgtcaoccc gagcgggtc ataccgggcc cagcaggggt acacggggc ggcaatggcgg aagatgctg tgggtgggt gcttggcctc ctgcttacc gaccagcat cctgagctgg agtagacct ccggggggcag ctccatcccc ggaggggccact gctatggccga gttcttacc</p>	P	Homo sapiens
548	177191	Histamine H3 Receptor	NM_007232		A	Homo sapiens

549	177191	Histamine H3 Receptor	NP_009163.1	<p>aactggtaact tctctcaac gggcttcaacc ctggaggttct ttacggcctt cctcagcagtc acccttttta accctcagcat clacttgaac atccagaagg gcaaccggctt ccaggcttggat gggggcttcgag aggcagtcggg ccccgagccc cctcccgagg cctccggccctc accatcccaca ccggcttggct gcttggggcttg ctggcaggaag gggcacaagggg agggccacagcc gcttgcacagg tatgggggtgg gtagagggcct gtagggcctg gaggccgggg agggccgaacct ctggggggggg gtagggggggg gctocgtggc ttacacacac ctgcctggag aagcgcalga agtagggctt ccagagcttc acccagcgct ttgggctgtc tggggggggc tggggggggc aagggggcca agtgcggc ggtcalttgg agcatcttgg gggctctggc gggcccatat acgtctgcga tgaatcatcg gggggggcctgc calggcact gggcttcgga clactggtag gaaacctctt tctggctctt gtagggccaac tgggctgtga acccttgcct ctacccttg tgcacaca gttccggccg gggcttcaac aagttgcctt gggccacaga gctcaaatc cagggccaca gctccctggga gcatctggg aagtaggggg cccacagagg cctccctcag ccacggcctct ctacggccag gctcttgggg calcttggccc tggctggccc taccgggctc gttccacag gggtagggccc cggcgtgtct gtagggcctct cttaalgccc cggcagccac ccggccatcg agggccctc ctgggggtgg cagagggccc ctacatggct gggactggagg ctgggggggg gggccctggccc ccacalttt gggctcaccg gtagggggga gttctggagg tccagacag ctggccacag ctggccaccc ccttggctgg cttggctggcc ttccacagg aagcactggc gttgttccca gggcttccg cctagcagtt tggcttgcga cgttgcacaca ccttgcacaca cctgcacacc gttccctccc ccggacacag ccaggagacat gcttggctg ctttggctt cttgcalaag cctcaggctt gggcccttca cccctctcc caccacctt cttggccc aagaagtga agggggccca ggcgtgtct tgccttcca ttctgggtgt ttcagaaaag atgaaagaa gaaacaltct gtagactga tttctgggg atgttaatc aagagagaca aaattgtcga ggaagctcagg gcttggattgg caggtgtggg ctccacggcc cctccctc cgtctaaaggct tccggctgag ctggccagc tggcttggcc caccggcctt ctggggctac accagggccc gtagggccagc ctggcccggc cactgttt gctcacacg gacctctggg gtaggggggg aggaaggggg ccggcttgggg ccaggccggcc caagcgtgc aggggggggc cagagagagg gccaagggcag gggccctgtc gccaagtgtc gtagcagcgt ctggcgtc ctctggctt gcccgtgg ctggccctga aaccggaggg tcaacalaaa gtagtatitt ttaaaaaa</p>	P	Homo sapiens
550	177387	G Protein-Coupled Receptor ORF4	NM_020155	<p>agcggcggct gcccagacc gacgggtatc agccggctct cccctccac cccaggagca calgaacgac ctagggccagg gaggctctc ctggggctc tgcaltccc cacttggc tctggggtag gccaagggag gtagacccc caacccctat ccggctgtc ctgaggaaaa gtagctgccc ttccatggcc ctgagtaggg gggcttggggc cagcgtgctt gttgtccca agggcaaggg tctctgtt gaggaggggg ggcgtcagc cacaactt ttccctga gggcccatc tccctcttg caccctgcaa ttccacccc tccgaltta ttccctgg tccggccaga gttccctt gctgtctcc ggggaltcag cctccccc tgaatggag agtaacctgt ctggcctgtt gctgtggc gggcgtggc ctggcgtggc accctgtgg accctggg tgaacgtgc clacacacc ctgtagccc tgcctctt ctccttat gcccagctt agcgtggct tctgtaggg cacaagctc tgaatca gacgggtgc ctggccctt gctgtctg gggccgttg gtagacccc tctctctt clactccga gatactccc</p>	A	Homo sapiens

551	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	<p>gogcaacccg cctggggccc ttgccttctt ggccttctta ctgctgcccc gtcctgctgc agttcttcac ctgacgctt atgaacctct accttgccca gg'tgg'tgtic aaggccaaagg tgaagcgtcg gcccggagatg agccggagct tgcctgctgt ccgagggggc ttgtggggg cctcgtcgtct ctttctgtcg g'gaacgtgc t'gtgtcgtgt gctctccat cggcgcgac agccctggggc cctgctgtt gtccgctcc tgg'gaagcga ctcccgttc g'atcatcgc cgtcgtctct tgcctgctgc cttcgtccgtc tgcgacggcg ggcctctcca ctgacatca cctggaggcc aaggtagggc tgcagcactg atgocacagt gcttttggg tctctcggca g'cggttcca ggg'tgtagag</p>	P	Homo sapiens
552	180956	Lysophosphatidic Acid Receptor Edg7	NM_012152	<p>MESNLSGLVP AAGLVPAALPP AVTLGLTAAY TTL YALLFFS VYAQLWL VLL YGHRKLSYQT VFALCLLWA ALRITLFSFY FRDTPRANRL GPLPFWLLYC CPVCLQFFTL TLMNLYFAQV VFKAKVKRRP EMRSRGLLA VR GAFVGASLLF LLVNVLCVAVL SHRRAPQWAL LLVRVLVSDS LFVICALSLA ACLCLVASGR PPLASTWRPR</p> <p>ctctttaaa ttctttcia gga'gttcac ttctctcca caatgaatga g'gttcaciat gacaagcaca tggacititi ttalaaatagg agcacacactg atactg'cga t'gact'ggaca ggaacaaagc ttgtgtatgt ttgtgtgtt gggacgttiti t'cgtcctgti tatittitit tctaattctc t'gg'calcgc ggcag'g'atc aaaaacagaa aatttcatt ccccttctac tacc'gt'gg ctaatttagc tgc'g'ccgat ttcttcgtcg gaattgoccta t'gattcctcg algtttaaca caggccacagt ttcaaaaact t'gac'gt'ca accgct'ggti t'ctccgtcag gggctct'gg acag'g'acti gact'gcttcc ctaccaaact t'gct'ggtat cgc'g'ggag aggcacatgt caatcagag g'atg'ggg'c catagcaacc t'gaccaaaaa g'agg'g'gaca ctgctcatt t'gct'gtctg gggccatcgcc attttatgg gggcggtccc cacat'gggc t'ggaatggc tct'gcaacat ctctgctcgc tctcccgg cccocattta cagcag'g'agt tacct'ggti tclggacagt g'ccaaccic alggccttcc tcatcag'gt t'g'gg'gt'g'ac ctg'c'g'atc acg'gt'g'atc caag'g'g'g'aa accaacgtct t'gctcgcga tacaagtggg tccatcagcc gcccggaggag acccaltgaag ctatgaaga cgg'g'g'agac t'gct'laggg gcg'tt'g'gg lat'gct'ggac cccgggctcg g'gg'gt'ctgc tccctgac'gg cct'gaa'c'gc aggcag'gt'g g'cg'g'caga t'g'ga'aa'gg t'ggt'ctcgc t'gct'g'c'gt gctcaactcc g'ct'g'g'aa'cc ccatcatcta ctctacaag g'acg'g'gaca t'g'at'ggcac calgaagaag at'g'at'c'gt gctctctca gga'g'g'aa'ccca g'ga'g'g'c'g'c cctc'g'cat cccctccaca g'ctc'agca gga'g'g'acac aggcagccag tcatagagg atagtattag ccaagg'gt'gca g'ct'g'cuata aaagcacttc ctactctg g'atg'ctctc gggccaccca g'gt'g'at'g'act g'ct'lagg</p>	A	Homo sapiens
553	180956	Lysophosphatidic Acid Receptor Edg7	NP_036284.1	<p>MNECHYDKHM DFFYNRSNTD TVDDWTGTL VVLCVGTFF CLFIFFSNLS VIAAVIKNRK FHFPFYLLA NLAAADFFAG IAYVFLMNT GPVSKLT VN RWFLRQGLLD SSLTASLTNL LVIAVERHMS IMRMRVHSNL TKKRVTLLIL LVWAIAMFG AVPTLGNCL CNISACSSLA PIYSRSYL VF WTVSNLMAFL IMVVVYLRV YVVKRKTNL SPHTSGSISR RRTPMKLMKT VMTVLGAFV CWTPGLVLL LDGLNCRQCG VQHVKRWFLL LALLNSVVNP IYSYKDEDM YGTMKKMICC FSQENPERP SRIPSTVLSR SDTGSQYIED SISQGAVCNK STS</p> <p>atgggccccg gcagggc'gct g'ct'ggc'gggt ctct'g'g'ga t'g'g'at'c'ggc cgt'ggc'gtc ctatccaaeg cact'g'gt'ct gctt'gt'gc gctacagcg ctgagctccg cact'g'agcg tcaaggctcc tcc'g'g'g'aa t'ct'g'ctctg gggccact'gc t'gct'ggcggc g'ct'g'g'acal g'ccctcagc t'gct'cg'gt'gt g'at'g'c'g'cggg cgggacacccgt cggcgccccgg cgc'at'g'ccaa g'icat'ggct tcc'g'g'acac ctctc'ggcg tccaacgcgg cgc'g'g'agcgt g'cg'g'c'g'cgc agc'g'c'g'acac ag'g'g'c'g'g'c ag'g'g'g'cttc ccat'g'c'g'ct acg'cc'g'g'acg cct'g'c'g'acg cgc'at'g'ccg g'cc'c'g'ct g'gg'c'g'g'ct t'gg'g'acagt cgc'g'ggccti ctaggc'g'ct g'cact'gggt c'ct'g'g'g'ct t'gg'g'acagc agc'g'c'c'ctcg c'gt'c'c'gtic g'ct'g'g'c'ctcg cccggccccag c'g'c'g'ctcc g'cg'ct'c'gca g'cccttcacg ccaagctcca t'g'cc'g'g'ggc ttg'c'g'ct'gc cgc'g'g'c'gg g'ct'c'g'ctc acctc'g'ctc ag'g'g'g'caccg g'g'g'g'g'cagc ag'acac'g'cc agc'g'c'g'g'ca cccgctcacc atgaag'g'cgc</p>	P	Homo sapiens
554	189873	G Protein-Coupled Receptor GPR78	AF411107	<p>atgggccccg gcagggc'gct g'ct'ggc'gggt ctct'g'g'ga t'g'g'at'c'ggc cgt'ggc'gtc ctatccaaeg cact'g'gt'ct gctt'gt'gc gctacagcg ctgagctccg cact'g'agcg tcaaggctcc tcc'g'g'g'aa t'ct'g'ctctg gggccact'gc t'gct'ggcggc g'ct'g'g'acal g'ccctcagc t'gct'cg'gt'gt g'at'g'c'g'cggg cgggacacccgt cggcgccccgg cgc'at'g'ccaa g'icat'ggct tcc'g'g'acac ctctc'ggcg tccaacgcgg cgc'g'g'agcgt g'cg'g'c'g'cgc agc'g'c'g'acac ag'g'g'c'g'g'c ag'g'g'g'cttc ccat'g'c'g'ct acg'cc'g'g'acg cct'g'c'g'acg cgc'at'g'ccg g'cc'c'g'ct g'gg'c'g'g'ct t'gg'g'acagt cgc'g'ggccti ctaggc'g'ct g'cact'gggt c'ct'g'g'g'ct t'gg'g'acagc agc'g'c'c'ctcg c'gt'c'c'gtic g'ct'g'g'c'ctcg cccggccccag c'g'c'g'ctcc g'cg'ct'c'gca g'cccttcacg ccaagctcca t'g'cc'g'g'ggc ttg'c'g'ct'gc cgc'g'g'c'gg g'ct'c'g'ctc acctc'g'ctc ag'g'g'g'caccg g'g'g'g'g'cagc ag'acac'g'cc agc'g'c'g'g'ca cccgctcacc atgaag'g'cgc</p>	A	Homo sapiens

555	189873	G Protein- Coupled Receptor GPR78	CAC34041.1	<p>tcggcgtgct cgccgacctg caocccagtg tgcggcacgg ctgcctcacc cagcagaagc ggccgcccga ccgcccacc aggaaagtg tgcattgctat tgcgacctt ctcattgct tggcccgta tgcctacc aggcggggg agctcgtgoc cttcgtacc gfgaacggcc agtggggcat cctcagaag tgcctgaact acagcaaggc ggtggccgac ccgttcacgt actctctgt ccgcccggccg tccgccaag tcdtggccgg catgggtcac cgggtgcga agagaaacccc gcgccagca tcaccatg acagctctt ggatgtggcc ggcatgtgac accagctgtt gtagagaac ccgcccagc cgtccacca caacgctct gggacacag agaatgattt ctcgtgcag cagacactt ga MGPGEALLAG LLVMVLAVAL LSNALVLLCC AYSALRTRA SGVLLVNL SL GHLLAALDM PFTLLGVMRG RTPSAPGACQ VIGFLDTFLA SNAALSVAAAL SADQWLAVGF PLRYAGRLRP RYAGLLGCA WQSLAFSGA ALGCSWLGY S SAFASCSLRL PPEPRPRFA AFTATLHVG FVLPLAVLCL TSLQVHRVAR RHCQRM DTVT MKALALLADL HPSVRQRCLI QKRRRHRAT RKIGIAIATF LICFAPYVMT RLAEVVPFVT VNAQWGILSK CLTYSKAVAD PFTYSLLRP FRQVLAGMVH RLLKRTPRPA STHDSSLDVA GMVHQLLKRT PRPASTHNGS VDTENDSCLQ QTH</p>	P	Homo sapiens
556	189874	Neuromedin U Receptor 2	NM_020167	<p>atggaaaac ttcaaatgc ttcttgatc tacacagaga aactagaaga tcatccagc aaacacatga acagaccga ggagiatctg gcttctct gggaacctg gcgcagccac ttctctcc ccggtctgt ggtgtatgig ccaattttg tgggggggt cattggcaat gctctgtgt gctgtgtgat tctgcagcac caggctatga agacgccac caactctac ctttcagcc tggcgtctc tgacctctg gctctctc ttggaaagcc cctggaggtc tatgaigt ggcgcaacta cctttctg ttcggcccg tgggtctgcta ctcaagacg gcoctcttg agacgtgig ctctgctcc atctcagca tcaccacgt cagcgtggag cgtacgtgg ccactaca ccgttcgc gccaaacgc agagcacccg gcgcggggcc ctacggatcc tcggcatctt cggggcttc tccgtgctt ttctctgccc caacaccagc atccatgga tcaagtcca ctactcccc aatgggtccc tggccccagc ttccgccc tctacgtga tcaagcccat gttggtctac aattcatca tcatctca ctctctca ttctactcc tcccagac tgcatacgt gctcttact acctcagc actcagca agaaagaca aatcttga ggcagatga gggaatgcaa atattcaag acctgcaga aaatcagca acaagatgct gttgtctg gttatggt tigtatctg tggggcccg ttccacattg accgactctt ctacgttt gggagagagt ggagtgaatc cctggctgct gtttcaacc tcttccatgt ggtgtcaggt gtcttctct acctgagctc agctgcaac cccattatct ataacctat gctctgccc ttccaggcag catccagaa tgtgatctt tcttccaca aacagtggca ctccagcat gacccacagt tgcacctgc ccaggcggaac atctctga cagaaatgcca cttggggag ctgaccgaag atataggct ccaattcca tgcagctat ccaagcaca cttcacctc ccaagccc tctctatga acagatga agaaacaact atcaagctt ccacttaac aaacctga</p>	A	Homo sapiens
557	189874	Neuromedin U Receptor 2	NP_064552.1	<p>MEKLQNASWI YQKLEDPPQ KHLNSTEYL AFLCGPRRSH FFLPVSVVYV PIFVVGIGN VL VCLVILQH QAMKTPNYY LFSLAVSDLL VLLGMPLEV YEMWRNYPFL FGPVGCYFKT ALFETVCFAS ILSITTVSVE RYVAILHPFR AKLQSTRRA LRILGIVWGF SVLFLPNTS IHGKIFHYFP NGSLVPGSAT CTVKPMWY NFIIQVTSFL FYLLPMTVIS VLYYLMALRL KKDKSLEADE GNANIQPCR KSVNKMFLVL VLVAICWAP FHIDRLFFSF VEEWSESLAA VFNLVHVVS G VFFYLSSAVN PIYNLLSRR FQAAFNVIS SFHKQWHSQH DPQLPPAQRN IFLTECHFVE LTEDIGPQFP CQSSMHNHSL PTALSSEQMS RTNYQSFHFN KT</p>	P	Homo sapiens
558	189884	G Protein- Coupled Receptor	LG94108	<p>atgttgccag ctgcttgc agactaac tccagcaga tgaatgctc ctctctcac ctccattg ccggagaggta cctgcccct gatccagg actggagaaac calcatccc gctctctgg tggctgtcg cctggggggc ttccgtgggaa acctgtgtgt</p>	A	Homo sapiens

Ls189884

559 189884 G Protein- ENSMPRT1140 P Homo sapiens
Coupled Receptor 67
Ls189884

gattggcacc ctccttcaca atgcttgggaa aggaagagcca tccatgatcc actccctgat tctgaatc agccctggcct atctctccct
ccctgcttt tctgaccata tccagctac ggcgtactcc aaaaagtgtt gggatctagg ctggttggc tgcagctct ctgactggt
tatccacaca tgcattggcag ccaagagcct gacaatgctt gggggggcca aagatgctt calgtatgca agtgaaccag
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gaagagtica ggggaaggctt gaaagggtga tggaaaggga tgaataccaa aaaaactcca actgctcag agtctcagga
aaacacagct ggcaactcag agggcttcc tgaacaaggtt ccaatccag aatccccagc atccatacca gaaaaagga
aaacacagct tccctctctt ggcaagggga aaactgagaa ggcaagat occatctc ctgacgtaga gcagtttgg
catgaagggg acacagctcc tctgttagc gacaatgacc ctatccctg ggaacatgaa gatcaagaga caggggagg
tgtlaaatag

560 189895 G Protein- NM_031936 A Homo sapiens
Coupled Receptor
GPR61

atggagctct caccatccc ccagctatca ggggaacttt ccactttggg gagggtccct caaacccag gtcctctac
tgccagtggg gtccggaggg tggggctacg ggalgttgc tgggaatc tggccctct ctcaatct ctgctggact
tgactgctgt ggcctggcaat ggcctgtgta tggccgtgat cggcaagag cctggccctcc gaaaattgt ctgctctc
cactctgccc tgggtgacct gctggctgccc ctgaccctca tggccctggc calctctcc agccctggccc tcttgacca
cgccctcttt ggggaagggg cctggccct ctactgttt ctgagcgtgt gctttgtag cctgggcatc ctctgggtgt cagccatcaa
tggggagc lactatag tagtccacc catggctac gagggtgcca tgaacgtggg gctggggccc tctgtgctgg
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gtcccccac actgtcact ccagtgaggc cacagtgctt actgcccagt ttgtgggtt gcttttctg tccittact tctgtgccc
ctgctctca lactctgt ctactcagc atgttccag tggcccgctt ggcctgcatg ccagacgggc cgtctgcccac
gtggatggag acacccggc aacgtccga atctcagc agccctcca cgaatgctac cagctcgggg gcccocaga
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aagocagctc cagaggagga gctgagcgtg cctagccggg agggcttcat tgaaggagac ttctcagt tcttcaagg
gactggctgt cctctgagt cctgggttc ccgaccccta ccagcccca agcaggagcc acctgctgt gactttaga
tccaggccag atag

561 189895 G Protein- NP_114142.1 P Homo sapiens
MESSIPQSS GNSSTLGRVP QTPGPSTASG VPEVGLRDVA SESVALFFML

562	189900	Coupled Receptor GPR61	NM_030760	Sphingolipid Receptor Edg8.	A	<p>sapiens</p> <p>LLDLTAVAGN AAVMAVIKPT PALRKVFVVF HLCVLDLLAA LTLMLPLAMLS SPALFDHALF GEVACRLYLF LSVCFVSLAI LSVSAINVER YYYVVHPMRY EVRMTLGLVA SVLVGVWVKA LAMASVPVLG RVSWEEGAPS VPPHCSLQWS HSAYCQLFVV VFAVLYFLLP LLLLLVYCS MFRVARVAAM PDGPLPTWME TPQRSLSL SRSTMVTSSG APQITPHRTF GGGKAAVLL AVGGQFLLCW LPYFSHLYV ALSAQPISTG QVESVVTWIG YFCFTSNPFF YGCLNRQIRG ELSKQFVCFK KPAPEEELRL PSREGSIEEN FLQLQGTGC PSESWVSRLP PSPKQEPNAV DFRIQAR</p>	Homo sapiens
						<p>atggagtcgg ggcgtctgcg gccggggccg gtagcgagg tcatgctct gcatiaaac tacaccggca agctccgcgg tgcgcctac cagccgggtg ccggcttgcg cgcggagccg ggggtgccc tggcgggtg cgcctcacc ggtctagaga atcagccgt gttgtgtg ctggagccgc acccgcgctt ccacgtccc algtctcgc tctggggcag cctcagctg tcggatctgc tggcaggcgc cgcctacgcc gccaaalcc tactgtcggg gccctcagc ctgaacctgt ccccgcgct ctggctcgca cgggagaggag gctgtctgtt ggcactcact gcgtccgtgc ttagcctctt ggccatcgcc ctggagcgca ggctacccat ggccgcagg ggcccccgc ccgtctccag tggggggcgc acgttggcga tggcagccgc ggcttggggc gtgtcgtgc tctcggggt cttgcagcg ctggcttggga attgcttggg tgccttggac gcttgcctca ctgtctgcc gtctacgcc aaggcttac tctctctg cgtctcgc ttcgtgggca tctggccgc gacttggca ctctacgcgc gcactacgt ccaggctacg gccaacgcgc ggccgcctgc ggccagccgc ggagctgcgg ggaccactc gccggggcgc cgctgcaagc cgcgtcgtct ggccctgcct cgcagctcga gcgttggctt cctggctt gttggcatgtt ggggccctt cttctctg ctgtctgc acgttgcgtt ccggcgcc acgtctct tactctgca ggccgctacc ticttgggac tggccatggc caactccti ctgaaccca tcatctaac gctcaaac cgcgacctgc gccacgcgt cctgcgcctg gtctctgcg gacgccact ctgcggcaga gaccgagtg gctccagga gtcggcgagc gcggctgagc ctctggggg cctgcgcgc tgcctggccc cggggcttga tgggagcttc agcggctcg agcctcacc gccacgcgc ctctggggg acacagcgc ctccagcg agcccggtg caccacagc cgcggcgct ctgtctcag aaccggctgc agactga MESGLLRPAP VSEVIVLHYN YTGKLRGARY QPAGALRADA VVCLAVCAFI</p>	
563	189900	Sphingolipid Receptor Edg8	NP_110387.1		P	<p>Homo sapiens</p> <p>VLENLAVLLV LGRHPRFAP MFLLLGSLT SDLLAGAA YA ANLLSGPLT LKLSPALWFA REGGVFALT ASVLSLLAIA LERSLTMARR GPAPVSSRGR TLMAAAAAGV VSLLLGLLP LGWNCLGRD ACSTVLPYA KAYVLCVLA FVGLAAICA LYARIYQVR ANARRLPAR GTAGTTSTRA RRPRLSLAL RTLSVLLAF VACWGFLFL LLDVACPAR TCPVLLQADP FLGLAMANSI LNPIYTLTN RDLRHALLRL VCCGRHSCGR DPSGQQSAS AAEASGGLRR CLPPGLDGSF SRSERSSPQR DGLDTSSTG SPGAPTAART LVSEPAAD</p>	Homo sapiens
						<p>gttagggcac cgtgtgtcgt cctgtctct ccaggccaga gccggggcgc ccttaccgcc acaggtcgt agccctgcag ctggccctca gccctggagag gaggcttct tttccagaga gactcgcgc tgcacttica gcttccctat ggctcgcgc ttcttagagg cctccgggta gccgcactgc ctggagggtt ggtagggagct ctgtctgctc actggggccct gccggccgcg cgttagggccc agcaaggccc ggtcttgggtt gaggaaagt gggcttagaga agcagtagag caccgggttcc aggcacactg ttaggttaggt gaaaggccagg gaggccatgga agagcttgtt gcagaggttcc agggatcgcc agggcgagcag ccagaaagcc accatgggaag catggcaaa gtagtgctg ggcaagagc agatgtgtga gacggccacc accatggcca gcacagcat ggccctctgc gggcttgcct gccggccag accaggttc ctggatgttga gccaatgt cacaatgca aagaggttga ggccatgttg caaggaaagc tccagcaggt acatgtcctg gtgccagcgg agcgaggccgc agggcttctg gccaccctg tagcttaggc aggaaggggc ggagaaagt gtcaggagca ggtgcctgtt gaggagcagg atggccacc accagttccccc</p>	
564	189901	G Protein- Coupled Receptor Ls189901 (HEOAD54)	LG94029		A	<p>Homo sapiens</p>	Homo sapiens

565	189901	G Protein- Coupled Receptor Ls189901 (HEOAD54)	CAC38933.1	<p>ggccaccgg gcagctgcc ccagggaagc acgggctcagc acgtggggg gctgcaccac cttcaggtag cggltgagtg cgatggctgt gagggaagaca acgctggocg tgcgggtgggt ggacagcatg aagaggttga ctttgcaggc agcagcccca aagggccagg tctcatggag gaggtagtag tccacggga ggggacaggtt gctgacagag aggaagtcag cggccaccag gctgcaccag aacaccgtgt tggagglcca gggccgcgtg tggatgcaga agatgaagag ggccaaactg ttcccacca ggccaggac aaatccagg gcaggatg gtgcaggaa ggacacacc agcgagggaag aggtgggggtg gcaggggccct ccaggagcc cccccaggt ggtaagggc</p>	P	Homo sapiens
566	189904	Purinergic Receptor P2U2 (GPR91)	NM_033050	<p>MELHNLSSPS PSLSSVLPP SFSPSPSSAP SAFTTVGGSS GGPCHPTSSS LVSAFLAPIL ALEFVLGLVG NSLALFICF HTRPWTSTNTV FLVSLVAADF LLISNPLPLRV DYLLHETWR FGAAACKVN L FMLSTNRTAS VVFLTAJALN RYLKVVPQPHH VLSRASVGAA ARVAGGLWVG ILLNGHLL STFGSPSCLS YRVGTPSPAS LRWHQALYLL EFFLPLALJL FAIVSIGLTI RNRGLGQAG PQRAMRVLAM VVAVYTICFL PSIIFGMASM VAFWLSACRS LDLCTQLFHG SLAFTYLSNV LDPVLYCFSS PNFLHQSRAL LGLTRGRQGP VSDSSYQPS RQWRYREASR KAEIGKLV QGEVSLEKEG SSQG</p>	A	Homo sapiens
567	189904	Purinergic Receptor P2U2 (GPR91)	NP_149039.1	<p>gggtatggtt taactacga gaattgttg aacaactacg acatgctggg gatcagga tggaatgcaa ctgcacaaa ctggctggca gcaggggctg cccctggaaaa gtaactacct tccattttt atgggatga gtcgtgtg ggagtcctg gaaataccat tgtgtttac ggctacatct tctctgaa gaactggac agcagtaata ttatcttt taacctct gtcctgact tagctttct gtgcaccc cccatgctga taagggtta tgcacatgga aactggatat atggagacgt gctcgcata agcaaacgat atgtgttca tgcacacct talaccaga tctcttct cactttatc agcatagatc galacttgat aataagtat ccttccggag aacacctct gcaaaagaaa gagtttgta tttaatc cttggccatt tgggtttag taacctaga gttactacc atactccoc ttalaaatcc tgttaact gacaatgca ccaactgtaa tgaattgca agtctggag acccaacta caacctcatt tacacatgt gttaacact gtggggtc ctatcttc ttutgtat gttttctt taitacaaga tgcctctt cetaagcag aggaataggc agggtgctac tgcctgccc ctgcaccc cttcaactt ggtcaltg gcagtggttaa tctctctg gcttttaca ccciatcacg tcatgggaa tgtgagatc gctcacgcc tggggatg gaagcagat cagtgctac aggtcgtcat caactcctt tacatgtga caggccctt ggctttctg aacagtgtca tcaacctgt ctctattt ctttggggag alcatitcag ggacatgctg atgaatcac tgaacacaa cttaaatcc cttaacct ttacagatg ggctcagaa ctctactt catcagaga aagtgaggg gcttgaaa cagattgtc tacagatga tctgtaagcc agttacagt tgcctaac catagacalc aatcagagag tgcacagat ttaacctga tctaaagaca agtltgacc agatgtg aaaaagatgg gacgacaga atgtactgtt tcttctct aagaattgaa aggagtga cttgctatg ttgggcatg taactocaa atactagga glataaggct ttccaatca gtcacaaaat ggaaagata. taagcaaca agtgtctgc attgatcac tggcagatt gtaaaaaa aaaaaaaa</p>	P	Homo sapiens
568	189920	G Protein- Coupled Receptor GPR63 (PSP24)	NM_030784	<p>MAWNATCKNW LAEEAALEKY YLSIFYGIEF VVGVLGNTIV VYGYFSLKN WNSSNYLNF LSVSDLAFLC TLPMLIRSYA NGNWIYGDVL CISNRYVLHA NLYTSILFLT FISIDRYLII KYPFREHLQ KKEFAILSL AIWVLVTLEL LPILPLNPV ITDNGTTEND FASSGDPNYN LIYSMCLTLL GFILPLFVMC FFYKIALFL KQRNRQVATA LPLEKPLN V IMAVVFISVL FTPYHVMRNV RIASRLGSWK QYQCTQVVIN SFYIVTRPLA FLNSVINPVF YFLLGDHFRD MLMNQLRHNF KSLTSFSRWA HELLSFREK</p>	A	Homo sapiens

569	189920	G Protein- Coupled Receptor GPR63 (PSP24 beta)	NP_110411.1	<p>atttgctg tgatgaaga cctacatgaa tattacatc cctccaccat tccagcatcc tgcactcagt tgcactgcta gatatagttt tgaacacatg gctccacatg gttgagttc ctggaccgag aatagatcag ctggccac aacaccagca gcatlaaga gacctaaact gctcttcag atcaccctt ctgctataat gataatcatt ctgttgtt ctcttttg gaaatgggt gttgccc tgctttacca aaaaagctgccc atgaggctg ctgaataacat cctcttgc agcctagctt tgcagacat gttgcttgca gtcctgaaca tgcccttgc cctgttaact attctacta cccgatggat ttgggaaa ttctcttgc aggtatctgc tatgtttt tggttttg tgatagaagg agtagccatc ctgctatca ttacataga taggtcctt attatagcc agaggcaggaa taagctaaac ccalatagag ctgaagttct gattgcagtt tcttgggcaa ctcttttg tgatgcttt ccttiagccg taggaaaacc cgaactgacg atacttccc gagctoccaa gttgtgttt gggtacacaa ccaatccagg ctaccagggt tatgtgatt tgatttctt catcttctc ttcatacct tcttggtat actglatca ttatgggca tactcaac cctccgac aatgcttga ggtatcatag ctaccctgaa ggatagtc tccagccaggc cagcaaacct gggtctcaga gctgcagag acctttccag atgagcattg acatgggct taaaacacgt gccitacca ctatttgc tctcttgc gcttcattg tctgctggc ccaatcacc actacagcc ttgtggcaac attcagtaag cactttatc atcagcaca ctitttgag attagcaact ggctactg gctcgtctac ctcaagctg catigaatcc gctgactac tactggaggaa ttagaat ocatgatgct tgcctggaca tgaactca gctctcaag ttttgcgc agctccctg tcacacaaag cgaactgac gctctagtc tgcctagtc tgggggaa atcggaact gggtgaaata ttggaaactgg ctgacattt gggtgagct tctcttatt tgcattgaa tctcttct catagctct ccaatttatt ttittata ggggttggt atglatgtgt gtagcaggt taaagaaga atgtaatta tggctgtt accaagaata aataataggaa aggtgatcac aataatcc tccagggtt aatagaatc ccaatttgg ggtaggaga ctitttttg gtttgggt ttctctga ttgatttgg ttcatagtg ggaatcaga ttgtctta ttgagctgc agtatcattg aatgtaggt gttcgtgtg ctgctaaagt atgtattt gatttata agactttt ttctggaa gacactg ctittacat cacatggag cc</p>	P	Homo sapiens
570	189945	G Protein- Coupled Receptor Dj287g14.2	AK027843	<p>MVFSAVLTAFT HTGTSNTTFV VYENTYMNIT LPPFQHPDL SPLRYSFET MAPTGLSSLT VNSTA VPTTP AAFKSLNPL QITLSAIME ILFVSFLGNL VVCLMVYQKA AMRSAINLL ASLAFADMLL AVLNMPLV TLTTRWFG KFFCRVSAMF FWLFVIEGVA ILLISIDRF LIIVQRQDKL NPYRAKVLIA VSWATSFCA FPLAVGNPDL QIPSRAPQCV FGYYTNPQYQ AYVILISLIS FFIPFLVILY SFGILNLT HNALRIHSYP EGICLSQASK LGLMSLQRPF QMSIDMGFKT RAFTTILFL AVFVVCWAPF TTYSLVATFS KHYYQHNF EISTWLLWLC YLKSALNPLI YYWRUKKFHD ACLDMMPKSF KFLPQLPGHT KRRURPSAVY VCGEHRTVV ttgcttgcg catcttga agcttaaaa acaattgag aatggcct caagatagac ctcaatagca catcacatg gaatattaca actcgaact tggctctcag cgtatcatcc ctgttaccag ggcacaaagc aattcaaat tttagcatg gcttccaag caataatgaa tctatttc agatggatt tgaagtgga caagtggalc cactggcatc tgaatttg cctcaaat tacttgagaa tttagtcca gaagattctg taattgttag aagagcacag ttactttct tcaacaaac tggactttc caggatgag gaccccaag aaaaactta gtgagttatg tgaaggcgtg cagttatgga aacattacta tccagaact gaaagatcct gttcaataaa aatcaaaaca tacaagaact caggaaagtc atcatccat ctgtgcttc tgggactga acaaaaaca aagtttggga ggaatggaaca cgtcagagatg tgttgcac agagattcag atgcaatgga gacagtctgc ctgtgaacc actacaca cttaggagt ctgagggacc ttccaagaag tgcctcacag ttatgagcaa gaaacacaa agtcttact ttcatcgt atattgggtg tggataatct gclattttt cagcagcaac tctctgaca tatgtgtct ttgagaatt ggcgaaggat tatctcca aatcttgaat gaaactgagc acagccctgc tgttctgaa tctctctc ctctagatg gcttgatcac ctctcaat gttgagtgag ttgtatgc ttgtcagtc ctgttgcat tctctctt ggcacacatt acctgagtg ggcagagagc aatccatag tcatgtctc tagttaaagt atttaacat tacttcgccc gatacatct aaaaatctgc atcatggct ggggttggc tgcctatg gttcagttg tcttagcagc cagaacaac aatgaagtt atggaaga aagttatggc aagaagaag gttgagat ctgttggaat caatgacag tcatattta tggaccgt</p>	A	Homo sapiens

571	189945	G Protein- Coupled Receptor Dj287g14.2	BAB55406	<p>gcttgggtatt ttggagatcat gtttttttcg aacattggcca tgttcatgtt ggttaattggcg cagatcttctg ggttggaaatgg caagagaagc aacaggacc ttgagagaaga agtggtaagg aacctggcca gttgggttag ctggactt ctgttgggga tggactgggg ttttgcatc ttggctgggg gacoccthaaa tatoccttc atgttacctt tctcatct caattcatia caaggcttat ttatttcat cttccactgt gctatgaagg agaatgttca gnaaacatggcg cggcgggcatc tctgtctggg tagattttcgg ttgacagala actcagattg ggttaagaca gctaaccaata tcatcaaga aagtgtctgat aattcaggaa aattttgttc ttcaagctcc attggttcca actcaacct ttttaccoc aatcttaaat ccagctctac caoctatttc aaagggtaata gocacacaga taatgtctcc tatggactt octtaacaa aagtggatca ctgagacagt gcttocalgg acaagctctt gcaaaacttg goccatctgct atggagatca aacaatcaatc atocctgtcc atcaggctcat tgalaaaggcg aagggtttatt gcaatgttct ttcaagacaac tctataaaa atattatcat gtcagacacc ttacggccaca gcaaaaagt ttatgtctt taagaaaag aatcaatct gcagaatagt gaagatttgc aagcagtgta aactggcaact agtggatgtaa atgtgtctt acctaggttaa ctgcalatat ataagggaatg tatttggta agaaggcttt tggaaatc agaattttc tttaatat atttttcca tggaaagtgt gtcacacia aaacttcatg actggagatga acatgactca gtagccacag aagcttatgat ttgtaaaata tataattgaa tcaagatgat calaatggca gggagacatt caaatagag acaagggaaga agcaatgtctg aggaagacc tagatagagc tcaatttact ccaoctaac gtataltctg galatacca ttttctgcat ctttcttc aacaataaac tgtcttctt ttggagactt taagacattt cctaaagcac aataaaaa ctcgtatttc ccatggaga gttttgtcc aagggaatag aagtggatga tatgggtggg tcaataaat caaaataat tatgaagagc tgggtctgca atagctagt taaaaactac ttgtgtgtca gtctctgtgt tatgtatat aagaagcciga ggttggcttgg caagatagat ggtgttatat ttatggatca ggctgtgtga tacaacctt gcalactatt atgcagctta cctaacctc agactatct ggttaatgtct tgtgtgttaa tgaatgtata gggaocaca tttaattgt tcttaagtca tggagtccat gcaatttct agaaatctgt ctgagtgcat gctgtgttt ttacatttg ctctgggta tctgggaagt atcaggttct gggagggcaac agcattaaat gataaagaaa ggaagacatc tggcaagacc aatctgtcta aaggcaaatg ccagaacctg gaacctagag gcctttctct ctgcacgaaa aacagggtagt ttgcagcttg agatatggga gtagtttttag gctacacag aacocagggg accctaccc ttgtgtgag cttaacatag gaagctatt gccgtgtcc agcagatgat gtagataaga ggttagtgggt tttaattac tgttccatt tgcacatoc tgcacacoca tcttgggaga caagacatt accagcttg gcttccagg gggaggggtg tattcagt</p> <p>MDFESGQVDP LASVILPPNL LENLSPEDSV LVRRRAQFTFF NKTGFLQDVG P PQRKTLVSYV MACSIGNITI QNLKDPVQIK IKHTRTQEVH HPICAFWDLN Homo KNKSFGGWNT SGCVAHRDSD ASETVCLCNH FTHFGVLM DL PRSASQLDAR sapiens NTKVLTFISY IGCISAFS AATLLTYAF EKLRRDYP SK LMNLSTALL FLNLLFLLDG WITSFNVDGL CIAVAVLLHF FLAFTTWMG LEAHMYIAL VKVFNTYIR YILKFCIGW GLPALVSVV LASRNNNEVY GKESYGKEKG DEFCWQDPV IFYVTCAGYF GVMFFLNIA M FIVVMVQICG RNGKRSNRTL REEVLRNLRS VVSLTFLG M TWGFAFFAWG PLNPFMYLF SIFNSLQGLF IFIHCAMKE NVQKQWRRHL CCGRFR LADN SDWSKTATNI IKSSDNLGK SLSSSSIGSN STYLTSSKSKS SSTTYFKRNS HTDNVSYEHS FNKSGSLRQC FHGQVLVKTG PC caccattagg caaagatagt ttctttagag agaatatctc ctgctaata cactgttacc agggccagatg gagaatatac agattttgca tactttatt atgcagtgac atacactgtc attctgtgc caggcttcat aggggaatata ttggccctgt gggatctta tgggttatg aagaacaaa aacagagctgt galatttatg ataaacttag ccattgtgtga cttaacaaa gttcttctt tggccatgtg gatcttctac tacttgaac atgactggcc atttgggccc ggtgtctgtga tgtctgtgtt ctactgaag tatgtcaaca tgtatgcaag catctacttc ttgtctgtca tcaagtgtcg acgatttgg ttctcatg accoccttgg cttoatgac tgcacacaga aataatgacct gtacatcagc attgtgtgtc tggctgtatcat ctgccttggc tgtgtactct ttccactct cagaacacct ggtgalacct ctgggcaatag gaccaaatgc ttgtgtgac ttccatccag gaaatgtcaac ctggccaccgt ccgtgttat gatgaccatt ggtcaggttga ttgggttgt</p>		
572	190026	G Protein- Coupled Receptor JEG18	NM_032553		A	Homo sapiens

Homo sapiens

P

NP_115942.1

G Protein-Coupled Receptor JEG18

190026

573

aaciccgtt ctagttgcc tatattgac ctggaaagacg gttatcac tgcagaataa alataccatg gcccaagatc ttggagagaa
acagaagcc ttgaagatga tttaacctg tgcaggga ttctaatt gttttgacc ttatcatt agttttct tagatttct
ggtagagcc aatgaatta aagcttgcct agccagaagg gttatctaa tatctatc ttggcatg ttgttctaa gtttgaattc
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tgcataatc ttgtgagta accatacag ttcccatg acactgaat tatgtataa caaaaaacca aactgaatgt
gactgaat gcaatgac cagaatcat ctgcaatcc caagccacag ggaagaact gcaaaacac acagctttc
agttcttc tatctatg ctatgggaa ttactct caaagcagg cctatttga gcatcagat ccacgallat tgatgtgac
atgtccatgt agtaattt ctcaagt

MPANYTCRTP DGDNTDFRYF IYAVTYTVIL VPLIGNILA LWVFGYMKKE
TKRAVIFMIN LAIADLLQVL SLPLRIFYL NHDWPFPGCL CMFCFYLKYV
NMYASYFLV CISVRRFWFL MYPRFHDCK QKYDLYISIA GWLIICLACV
LFPLRTSDD TSGNRTKCFV DLPTNRVNLA QSVVMMTIGE LIGFVTPLLI
VLYCTWKTVL SLQDKYPMAQ DLGEKQKALK MILTCAGVFL ICFAPYHFSF
PLDFLKSNE IKSLARRVI LIFHSVALCL ASLNSCLDPV IYFSTNEFR RRLSRQDLHD
SIQLHAKSFV SNHTASTMTP ELC

Homo sapiens

A

AF055084

G Protein-Coupled Receptor VLGR1

190031

574

attactgat algtatgat tcagccgtga ttccaaagg ttcatatt gacagcatc ttctgattc ctacagttt attatctcc
cattgccaa gtttagaac ttatattg ttgggttc gtacagcac cactatgg gagcaacaca gaaatctgt tcaaaacatc
attcagaa aagaagaata tttagcgtt gaggatctt aagaagtatg cagactta tagactaag ttgtaggagc taagaggatc
tttaattca tctatgcaa ttatgtatt ttgtttg ttatattt ttatttg attgtatga ctttggaaga ggttatgatt ttaccattca
agaataagg cttcagatag atcaactcc tgaatalagg aacatcca ttgtcgcac cataataag aaaaatgata
acgcagaagg calcatgaa ttgaccaca agtatatgc cttcgaagtg gaggaagtg ttgggctgat calgatcca
gttgtagagg tacatggac ttatgctat gtgacagctg attatct tcagagctc ttggccagtc ccggagggt ttatcat
ttgcatggca gtacagcac cttcagcal gggaacaaact taagtttat aaatctcc atcatgatg acaatgaag tgaattgag
gagcccatg aaatttact cactggagct actggggag cgttccctgg gcgccacctt gtagcagaa tcalaatgc
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tactgccaca gaalagaagac attgcaagcc cagttagcgg gtgttctat ttggagaag gagaaggagg agtggagaoc
ataattctga caatctatcc tcatgaagaa attgaagtg aagaagacat cattataa ctatcttg tgaagagaga agctaaata
gactccagag claaagatgt tacattaac atacaagatg ttggtagcc aaatggaggt gttagagttg ctctgaac ttgtctaaag
aagacttatt gtagccctt ggtcttggaa ggcccccgc tcatcctt cttttcaga agagtcaagg gacacttgg
agaattatg gttactggg aattaaagtg tgaattgac attacttgg acttttcc caccagtgga ttttcacca ttgtctggg
agaagaagtg gctagcttg algtcatt gctaccagat gaggtagctg agtagaggga agattatg atccagctg ttctgttaga
gggaggagoc gaactggatc tggagaaag tatcacatgg ttcttggtt algcataag tgaaccacat gtagatttg
ccctgtatc gtagccag taatactia tgggcagaa cttattaga tcatocaa taacataac ccggcttgc tggaaacattg
gaalgtggc tgttgggtt cgaatcat cggatcalaa agtagagccg attgtaccg aaaaagcaga gaggcagctg
gtgttcaaa agtggtagcc alataaagtg gactgtgtgc caataaagaa tcaaggcttc ctatcagtg gcttaatt cacttggca
ctgtgtgact tgalgttct cgtgtggag ttctatggaa tgcacaat tcttcaagga gcaaatctg ctgtctcc agtcttggg
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agaagcaca atgtgagctc ctggttggcc tggagagag gatagtctcc tgggttagaa atcttgaat tgaattgt tggcaacatg
accccaacac tggggagcct ttacttcc caggttgaac aagggaaagg agttttctg ttggacttcc ctatggccctg

Homo
sapiens

P

AAD5586.1

G Protein-
Coupled Receptor
VLGR1

190031

575

ggaggactac acatggccta cagacacttc tggatgtlgg ttcttttgtt cattitcaac agtcicgagg gacttiatgt tticatgtt
 tatticatt tacacaacca aatgtgtgc cctatgaagg ccaagtacac tggagaatg aatgggcac ctagaccag cacagccitt
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 ggtgccact gacigggaga gagcactt ccaacaggc agcaggcca gccctgatt aaagccaagt ccacaaaag
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 atattgat taanaactgg tgcgtctc agtgcagtg ataatgaatc tggccaagtc agccaggagg ggggacact
 gactgactcc cagatcgtgg agctcaggag gataccatc gccgacatc accitgagca cctcactaac cattgcacg
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 ataalacaa acgtgattgt tgaatggga gataaaita ctagattat gtaactgaa aattcactgc tataagaag gtagagtcag
 ttgtatcag ttaataggat gttcatatc caaggatatt agttgttt ttaatcalcc tataaggcta acattgtta algaangtaa
 taatcaataa agcaatagaa tct
 MQLCIFCCCC ILFYFDLYDF GRGYDFTIQE NGLQIDQPPE IGNISIVRII IMKNDNAEGI P
 IEFDPKYTAF EVEDVGLIM IPVVRLHGTG GYVTADFISQ SSSASPGGVD
 YILHGSTVTF QHQQNLSFIN ISIDDNES FEEPIELLT GATGGA VLGR HLVSRIIAK
 SDSPFGVIRF LNQSKISIAN PNSTMILSLV LERTGGLLGE IQVNWETVGP
 NSQEALLPON RDIADPVSL FYFGEGEGV RTILTIYPH EEEVEETFI IKLHL VKGEA
 KLDSRAKDVLT LTIOEFGDPN GVVQFAPETL SKKTYSEPLA LEGPLLTFF
 VRRVKGTGGE IMVYWELSE FDITDFLST SGFTIADGE SEASFDVHLL PDEVPEIEED
 YVIQLVSVEG GAELDLEKSI TWFSVYANDD PHGVFALYSD RQSLIGQNL IRSIQINIR
 LAGTFGDVAV GLRISSDHKE QPIVTENAER QL VVKDGATY KVDVVPKINQ
 VFLSLGSNFT LQLVTVM LV GRFGYGMPTIL QEAKS AVLVPV SEKAANSQVG
 FESTAFQLMN ITAGTSHVMI SRRGTYGALS VAWTTGYAPG LEIPEFIVVG
 NMTPTLGSL FSHGEQRKGV FLWTFSPGW PEAFVLHSLG VQSSAPGGAG
 LRSGFIVAEI EPMGVFQFST SSRNIIVSED TQMIRLHVQR LFGFHSDLIK VSYQTTAGSA
 KPLEDFEPVQ NGELFFQKFQ TEVDFEITII NDQLSEIEEF FYINLTSTVEI RGLQKFDVNW
 SPRLNDFS AVITLDNDD LAGMDISPE TTVA VAVDTT LIPVETEST YLSTSKTTTI
 LQPTNVVAIV TEATGVSAIP EKL VTLHGTP AVSEKPDVAT VTANVSHGT
 FSLGPSIVYI EEMKNGTFN TAEVLIRRTG GFTGNVSITV KTFGERCAQM
 EPNALPFRGI YGISNLTWAV EEDFEEQTL TLIFLDGERE RKVSVQILDD
 DEPEGQEFFY VFLTNPQGA QIVEGKDDTG FAAFAMVIT GSDLHNGIG
 FSEESQSGLE LREGAVMRRL HLIVTRQPNR AFEDVKVFWR VTLNKTVVVL
 QKDGVNLMEE LQSVSGTTTC TMGQTKCFIS IELKPEKVPQ VEVYFFVELY
 EATAGAAINN SARFAQIKIL EDESQSLVY FSVGSR LAVA HKKATLISLQ
 VARDSGTGLM MSVNFSTQEL RSAETIGRTI ISPAISGKDF VITEGTLVFE
 PGQRSTVLDV ILTPETGSLN SFPKRFQIVL FDPKGGARD KVYGTANIL
 VSDADSAIW GLADQLHQPV NDDILNRVLH TISMKVATEN TDEQLSAMMH
 LIEKITTEGK IQAFSVASRT LFYEILCSLI NPKRKDTRGF SHFAEVTENF AFSLLTNVTC
 GSPGEKSKTI LDSCPYSIL ALHWYPOQIN GHKFEKGED YRIPERLLD
 VQDAEIMAGK STCKLVQFTE YSSQWFWISG NNLPTLKNKV LSLSVKGQSS
 QLLTNDNEVL YRIYAAEPRI IPQTSCLLW NQAAASWLSD SQFCKVIEET

576	190168	G Protein-Coupled Receptor GPR58	NM_014626	ADYVEACASH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHF CARYSMFAAK LLTHMAASL GTQILFLASA YASPOLAEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLJHG DLCPNYYA ALFTAALVPL TCLVVVFVVF IHAYQVKPW KAYDDVFRGR TNAAEIPLIL YLFALISVTW LWGGLHMAYR HFWMVLVFI FNSLQGLYVF MMYFILHNQM CPMKASYTV EMNGHPGPST AFFTPSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSQNAGATP SSGGYGQSL IADEESQFED DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL atgtaiccat ttatggcagg atccataat atccataat ttggcaatct tgcataata attccatt octacttcaa gcaatctcac acacaaacca actctccat cctctccatg gccatcacig attctctct gggatcaccc atcatgccat atagatgat cagatcggtg gagaacigct ggattttgg gctiacttt ttgaagatti attatagtt tgaccigalg cttagcataa catccatttt tcatcttgc tcagtgcca ttatagatt ttatgciata tttaccat tacittatc caccaata actattccag tcatataaag atgtactt ctatgtgt cggctccigc agcatctgccc ttctctcaga ggcataigca gatggaatag agggctatga catcttggt gctgttcca ttctgccc agtgaigtc acaagctat gggggaccac ctgtttatg gcaggtttct tcatcttgg gtctatgat gggggatt accggcaaa ttitgcagla tccagaaaac algctcagc catcaataac ttgcgagaaa atcaaaataa tcaaggaag aaagacaaaa aagctgcca aactttagga atagttagat gattttctt attatgtgg ttctctgt tcttcaaat ttatggat ccttttga actctctac tctgtagt ttgttgaag cctgacatg gtttgctat tttaactcca catgtaatoc gtataatat ggtttctct atccctggt tgcagagca ctgagatga ttitcagg taaaatlttc agctcagt ttccataatc tatttgt atgcaaaaag aaagtgaag a MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNLFILSM AITDFLLGFT IMPYSMRSV P ENCWYFGLTF KIIYYSFDLM LSITSIFHLC SVADRFYAI CYPLLYSTKI TIPVKRLLL LCWSVPGAFA FGAVFSEYA DGIEGYDILV ACSSSCPVMF NKLLWGTTLFM AGFFTSGSMM VGIYGKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTILG IVIGVLLCW FPCFFTTLLD PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFRRA LKYTLGKIF SSCFHNTILC MQKESE atggatcaa ctatattoc cgaagacctc tccagtgc caaaattgt aaataagalc ctgctccoc accaacgcct ctittcagt ccaggigata algatttcgg ttatgactgg agccatgatt atccactatt cggaaactig gtataatgg ttccataic gcatucaaa cagcttcat ctccacaaa ctctcigac ctctccatg caaccacga ctctcigc ggittgtca ttatgccata cagcataatg cgatcagtg agattgcg gactttggg gatgcttt gtaattcca cacaagctt gacatgagc tcatgctgac ctccatttc cactctgt ccatlgctat tgaccgatt taigccgtgt gtaacctt acatacaca accaaaalga cgaactccac cataaagcaa ctctggcat ttcttggtc agttctgtc ctitttct ttgtttag ttatctgag gccagttt coggatlgca gagctataag atactgtg ctgttccaa ttctgtcc ctacttca acaacticg ggggacaala ttgtcacia catgtttct tacctgtgc tccatcagg ttgtattta tggcaaatc ttatctgt ccaacagca tgcctcagtc atcagccatg tgcctgaaaa cacaagggg gcagtgaaaa aacacatc caagaaaaag gcaggaaaag cagcgaagac acttggtata gtaatggggg ttgtctggc ttctgtgt cctgttct gattgacca taactagct actccactoc catacila ttggaictt tagtggct ccgttactc aacttact gcaacctct latcagtc ttittaat calgttca gaaagcatic aagtaacatg ttgcaagaaa aatattagc tccattcag aaactgcaa ttgttct gaagcatt aa MDLTYPEDL SSCPKFVNI LSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPTNFLI LSMATTDFLL GFVIMPYSIM RSVESCWYFG	Homo sapiens
577	190168	G Protein-Coupled Receptor GPR58	NP_055441.1	ADYVEACASH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHF CARYSMFAAK LLTHMAASL GTQILFLASA YASPOLAEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLJHG DLCPNYYA ALFTAALVPL TCLVVVFVVF IHAYQVKPW KAYDDVFRGR TNAAEIPLIL YLFALISVTW LWGGLHMAYR HFWMVLVFI FNSLQGLYVF MMYFILHNQM CPMKASYTV EMNGHPGPST AFFTPSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSQNAGATP SSGGYGQSL IADEESQFED DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL atgtaiccat ttatggcagg atccataat atccataat ttggcaatct tgcataata attccatt octacttcaa gcaatctcac acacaaacca actctccat cctctccatg gccatcacig attctctct gggatcaccc atcatgccat atagatgat cagatcggtg gagaacigct ggattttgg gctiacttt ttgaagatti attatagtt tgaccigalg cttagcataa catccatttt tcatcttgc tcagtgcca ttatagatt ttatgciata tttaccat tacittatc caccaata actattccag tcatataaag atgtactt ctatgtgt cggctccigc agcatctgccc ttctctcaga ggcataigca gatggaatag agggctatga catcttggt gctgttcca ttctgccc agtgaigtc acaagctat gggggaccac ctgtttatg gcaggtttct tcatcttgg gtctatgat gggggatt accggcaaa ttitgcagla tccagaaaac algctcagc catcaataac ttgcgagaaa atcaaaataa tcaaggaag aaagacaaaa aagctgcca aactttagga atagttagat gattttctt attatgtgg ttctctgt tcttcaaat ttatggat ccttttga actctctac tctgtagt ttgttgaag cctgacatg gtttgctat tttaactcca catgtaatoc gtataatat ggtttctct atccctggt tgcagagca ctgagatga ttitcagg taaaatlttc agctcagt ttccataatc tatttgt atgcaaaaag aaagtgaag a MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNLFILSM AITDFLLGFT IMPYSMRSV P ENCWYFGLTF KIIYYSFDLM LSITSIFHLC SVADRFYAI CYPLLYSTKI TIPVKRLLL LCWSVPGAFA FGAVFSEYA DGIEGYDILV ACSSSCPVMF NKLLWGTTLFM AGFFTSGSMM VGIYGKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTILG IVIGVLLCW FPCFFTTLLD PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFRRA LKYTLGKIF SSCFHNTILC MQKESE atggatcaa ctatattoc cgaagacctc tccagtgc caaaattgt aaataagalc ctgctccoc accaacgcct ctittcagt ccaggigata algatttcgg ttatgactgg agccatgatt atccactatt cggaaactig gtataatgg ttccataic gcatucaaa cagcttcat ctccacaaa ctctcigac ctctccatg caaccacga ctctcigc ggittgtca ttatgccata cagcataatg cgatcagtg agattgcg gactttggg gatgcttt gtaattcca cacaagctt gacatgagc tcatgctgac ctccatttc cactctgt ccatlgctat tgaccgatt taigccgtgt gtaacctt acatacaca accaaaalga cgaactccac cataaagcaa ctctggcat ttcttggtc agttctgtc ctitttct ttgtttag ttatctgag gccagttt coggatlgca gagctataag atactgtg ctgttccaa ttctgtcc ctacttca acaacticg ggggacaala ttgtcacia catgtttct tacctgtgc tccatcagg ttgtattta tggcaaatc ttatctgt ccaacagca tgcctcagtc atcagccatg tgcctgaaaa cacaagggg gcagtgaaaa aacacatc caagaaaaag gcaggaaaag cagcgaagac acttggtata gtaatggggg ttgtctggc ttctgtgt cctgttct gattgacca taactagct actccactoc catacila ttggaictt tagtggct ccgttactc aacttact gcaacctct latcagtc ttittaat calgttca gaaagcatic aagtaacatg ttgcaagaaa aatattagc tccattcag aaactgcaa ttgttct gaagcatt aa MDLTYPEDL SSCPKFVNI LSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPTNFLI LSMATTDFLL GFVIMPYSIM RSVESCWYFG	Homo sapiens
578	190170	G Protein-Coupled Receptor GPR57	NM_014627	ADYVEACASH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHF CARYSMFAAK LLTHMAASL GTQILFLASA YASPOLAEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLJHG DLCPNYYA ALFTAALVPL TCLVVVFVVF IHAYQVKPW KAYDDVFRGR TNAAEIPLIL YLFALISVTW LWGGLHMAYR HFWMVLVFI FNSLQGLYVF MMYFILHNQM CPMKASYTV EMNGHPGPST AFFTPSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSQNAGATP SSGGYGQSL IADEESQFED DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL atgtaiccat ttatggcagg atccataat atccataat ttggcaatct tgcataata attccatt octacttcaa gcaatctcac acacaaacca actctccat cctctccatg gccatcacig attctctct gggatcaccc atcatgccat atagatgat cagatcggtg gagaacigct ggattttgg gctiacttt ttgaagatti attatagtt tgaccigalg cttagcataa catccatttt tcatcttgc tcagtgcca ttatagatt ttatgciata tttaccat tacittatc caccaata actattccag tcatataaag atgtactt ctatgtgt cggctccigc agcatctgccc ttctctcaga ggcataigca gatggaatag agggctatga catcttggt gctgttcca ttctgccc agtgaigtc acaagctat gggggaccac ctgtttatg gcaggtttct tcatcttgg gtctatgat gggggatt accggcaaa ttitgcagla tccagaaaac algctcagc catcaataac ttgcgagaaa atcaaaataa tcaaggaag aaagacaaaa aagctgcca aactttagga atagttagat gattttctt attatgtgg ttctctgt tcttcaaat ttatggat ccttttga actctctac tctgtagt ttgttgaag cctgacatg gtttgctat tttaactcca catgtaatoc gtataatat ggtttctct atccctggt tgcagagca ctgagatga ttitcagg taaaatlttc agctcagt ttccataatc tatttgt atgcaaaaag aaagtgaag a MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNLFILSM AITDFLLGFT IMPYSMRSV P ENCWYFGLTF KIIYYSFDLM LSITSIFHLC SVADRFYAI CYPLLYSTKI TIPVKRLLL LCWSVPGAFA FGAVFSEYA DGIEGYDILV ACSSSCPVMF NKLLWGTTLFM AGFFTSGSMM VGIYGKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTILG IVIGVLLCW FPCFFTTLLD PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFRRA LKYTLGKIF SSCFHNTILC MQKESE atggatcaa ctatattoc cgaagacctc tccagtgc caaaattgt aaataagalc ctgctccoc accaacgcct ctittcagt ccaggigata algatttcgg ttatgactgg agccatgatt atccactatt cggaaactig gtataatgg ttccataic gcatucaaa cagcttcat ctccacaaa ctctcigac ctctccatg caaccacga ctctcigc ggittgtca ttatgccata cagcataatg cgatcagtg agattgcg gactttggg gatgcttt gtaattcca cacaagctt gacatgagc tcatgctgac ctccatttc cactctgt ccatlgctat tgaccgatt taigccgtgt gtaacctt acatacaca accaaaalga cgaactccac cataaagcaa ctctggcat ttcttggtc agttctgtc ctitttct ttgtttag ttatctgag gccagttt coggatlgca gagctataag atactgtg ctgttccaa ttctgtcc ctacttca acaacticg ggggacaala ttgtcacia catgtttct tacctgtgc tccatcagg ttgtattta tggcaaatc ttatctgt ccaacagca tgcctcagtc atcagccatg tgcctgaaaa cacaagggg gcagtgaaaa aacacatc caagaaaaag gcaggaaaag cagcgaagac acttggtata gtaatggggg ttgtctggc ttctgtgt cctgttct gattgacca taactagct actccactoc catacila ttggaictt tagtggct ccgttactc aacttact gcaacctct latcagtc ttittaat calgttca gaaagcatic aagtaacatg ttgcaagaaa aatattagc tccattcag aaactgcaa ttgttct gaagcatt aa MDLTYPEDL SSCPKFVNI LSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPTNFLI LSMATTDFLL GFVIMPYSIM RSVESCWYFG	Homo sapiens
579	190170	G Protein-Coupled Receptor	NP_055442.1	ADYVEACASH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHF CARYSMFAAK LLTHMAASL GTQILFLASA YASPOLAEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLJHG DLCPNYYA ALFTAALVPL TCLVVVFVVF IHAYQVKPW KAYDDVFRGR TNAAEIPLIL YLFALISVTW LWGGLHMAYR HFWMVLVFI FNSLQGLYVF MMYFILHNQM CPMKASYTV EMNGHPGPST AFFTPSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSQNAGATP SSGGYGQSL IADEESQFED DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL atgtaiccat ttatggcagg atccataat atccataat ttggcaatct tgcataata attccatt octacttcaa gcaatctcac acacaaacca actctccat cctctccatg gccatcacig attctctct gggatcaccc atcatgccat atagatgat cagatcggtg gagaacigct ggattttgg gctiacttt ttgaagatti attatagtt tgaccigalg cttagcataa catccatttt tcatcttgc tcagtgcca ttatagatt ttatgciata tttaccat tacittatc caccaata actattccag tcatataaag atgtactt ctatgtgt cggctccigc agcatctgccc ttctctcaga ggcataigca gatggaatag agggctatga catcttggt gctgttcca ttctgccc agtgaigtc acaagctat gggggaccac ctgtttatg gcaggtttct tcatcttgg gtctatgat gggggatt accggcaaa ttitgcagla tccagaaaac algctcagc catcaataac ttgcgagaaa atcaaaataa tcaaggaag aaagacaaaa aagctgcca aactttagga atagttagat gattttctt attatgtgg ttctctgt tcttcaaat ttatggat ccttttga actctctac tctgtagt ttgttgaag cctgacatg gtttgctat tttaactcca catgtaatoc gtataatat ggtttctct atccctggt tgcagagca ctgagatga ttitcagg taaaatlttc agctcagt ttccataatc tatttgt atgcaaaaag aaagtgaag a MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNLFILSM AITDFLLGFT IMPYSMRSV P ENCWYFGLTF KIIYYSFDLM LSITSIFHLC SVADRFYAI CYPLLYSTKI TIPVKRLLL LCWSVPGAFA FGAVFSEYA DGIEGYDILV ACSSSCPVMF NKLLWGTTLFM AGFFTSGSMM VGIYGKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTILG IVIGVLLCW FPCFFTTLLD PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFRRA LKYTLGKIF SSCFHNTILC MQKESE atggatcaa ctatattoc cgaagacctc tccagtgc caaaattgt aaataagalc ctgctccoc accaacgcct ctittcagt ccaggigata algatttcgg ttatgactgg agccatgatt atccactatt cggaaactig gtataatgg ttccataic gcatucaaa cagcttcat ctccacaaa ctctcigac ctctccatg caaccacga ctctcigc ggittgtca ttatgccata cagcataatg cgatcagtg agattgcg gactttggg gatgcttt gtaattcca cacaagctt gacatgagc tcatgctgac ctccatttc cactctgt ccatlgctat tgaccgatt taigccgtgt gtaacctt acatacaca accaaaalga cgaactccac cataaagcaa ctctggcat ttcttggtc agttctgtc ctitttct ttgtttag ttatctgag gccagttt coggatlgca gagctataag atactgtg ctgttccaa ttctgtcc ctacttca acaacticg ggggacaala ttgtcacia catgtttct tacctgtgc tccatcagg ttgtattta tggcaaatc ttatctgt ccaacagca tgcctcagtc atcagccatg tgcctgaaaa cacaagggg gcagtgaaaa aacacatc caagaaaaag gcaggaaaag cagcgaagac acttggtata gtaatggggg ttgtctggc ttctgtgt cctgttct gattgacca taactagct actccactoc catacila ttggaictt tagtggct ccgttactc aacttact gcaacctct latcagtc ttittaat calgttca gaaagcatic aagtaacatg ttgcaagaaa aatattagc tccattcag aaactgcaa ttgttct gaagcatt aa MDLTYPEDL SSCPKFVNI LSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPTNFLI LSMATTDFLL GFVIMPYSIM RSVESCWYFG	Homo sapiens

GPR57

580 190188 G Protein-
Coupled Receptor
LGR6 AB049405

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A Homo
sapiens

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gaaacctt gggtgaacccc aaacctcat gggtgggagaa ctgttcttga gggtcagagg gggtatccca gtcagggttgg
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583	190414	G Protein-coupled Receptor GPR101	CAC33098.1	MTSTCTNSTR ESNSSHTCMP LSKMPISLAH GIIRSTVLVI FLAASFVGNV VLALVLQRKP P QLLQVTRRFI FNLLVTDLLQ ISLVAPWVVA TSVPLFWPLN SHFCTALVSL THLFAFASVN TIVL VSDRY LSIHPLSY SKMTQRRGYL LLYGTWIVAI LQSTPPLYGW QGAAFDERNA LCSMIWGASP SYTILSVVSF IVPLIVMIA CYSVVFCAAR RQHALL YNVK RLSLEVRVKD CVENEDEEGA EKKEEFQDES EFRRQHEGEV KAKEGRMEAK DGLSKAKEGS TGTSSESV EA RGSEEVRESS TVASDGSMEG KEGSTKVEEN SMKADKGRTE VQCSIDLGE DGMEFGEDDI NFESEDDVEAV NIPESLPSPR RNSNSNPPLP RCYQCKAAKV IFILFSYVL SLGPYCFILAV LAVVVDVETQ VPQWVITIII WLFFLQCCIH PYVYGYMHKT IKKEIQDMLK KFFCKEKKPK EDSDPDLPGT EGGTEGKIVP SYDSATFP taactgtcca ccagaaagga ctgctcttg ggtgagtgga acitctcca tatagaaag aatgaagagc tgagaaactc agccctatc A atggggaaca gctctgacgc caactctcc tgcctacatg agtctgtgt gggctatcgt taigtgtcag ttatgtgggg ggtgtgtgtg gctgtgacag gcaac-gtggg caatgtgtc accctactgg ccttgccat ccagcccaag ctocgtaccc gattcaacct gctcatagcc aactctacac tggctgact ctctactgc acgtctctc agccctctc tgggacacc taotccacc tgcactggcg caccgtgtgc acccttgcga gggatattgg gctctcct ttgctctca attctgtc calcttgacc ctcgtcctca tgcaciggg accctaccc ctcattggcc acciaagct ttccccaa gtttcag ccaaggggat agtctggcca ctgtgtgagca cctgggtgt gggc-gtggc agcttgtc cctctggcc tattatc ctgtactctg tagtctgac ctgcagctt gaccgcatcc gaggccggcc ttaccacc atctcatgg gcatctact tgtctgtgg ctgacagtg ttgcatcti ctatgctc atccaccgcc aggtcaaacg agcagcacag gcactggacc aataagtt ggacagggca agcatccat ccaaccatgt ggccaggact gatgaggcca tgcctgtcgc ttccagagag ctggacagca ggttagcaltc agggagacc agtgaaggga tttcatcga gccagtcat gctgccaca ccagaccct ggagaggagc lcatcagaag tgggagacca gattcaacagc aagagagcta agcagatggc agagaaagc cctccagaag catctgccaa agocacca attaaaggag ccagaaagagc tccgattct lcatggat ttgggaaggt gactcgaatg tgtttgtc tgtctcgt ctggccgt agctacatcc cctctgtct gctcaacatt ciggatcca ggtccaggc tcccggttg gtcacatgc tigtgccaa cctcacctgg ctcaatggt gcatcaacc tgtgtctat gcagccatga accgcaatt ccgccaagca latggctcca tttaaaag agggcccg agttccata ggctccatga gaactgtac ctagtacc agaatcagg actgtctct ccaggacca agtggccaggg taalaggaga ataggtagaa taacacatgt gggcatcttc acaacaatc cccccagcc tcccaatca agtctcca tcaatgac aatgttcag cctagactg ccaaggagt attaatatt attaatatt gaattctgt ctttaaaaa aaaaaaata aaaaaa aaaaa	Homo sapiens
584	190418	Inflammation- Related G Protein-Coupled Receptor EX33	NM_020370	taactgtcca ccagaaagga ctgctcttg ggtgagtgga acitctcca tatagaaag aatgaagagc tgagaaactc agccctatc A atggggaaca gctctgacgc caactctcc tgcctacatg agtctgtgt gggctatcgt taigtgtcag ttatgtgggg ggtgtgtgtg gctgtgacag gcaac-gtggg caatgtgtc accctactgg ccttgccat ccagcccaag ctocgtaccc gattcaacct gctcatagcc aactctacac tggctgact ctctactgc acgtctctc agccctctc tgggacacc taotccacc tgcactggcg caccgtgtgc acccttgcga gggatattgg gctctcct ttgctctca attctgtc calcttgacc ctcgtcctca tgcaciggg accctaccc ctcattggcc acciaagct ttccccaa gtttcag ccaaggggat agtctggcca ctgtgtgagca cctgggtgt gggc-gtggc agcttgtc cctctggcc tattatc ctgtactctg tagtctgac ctgcagctt gaccgcatcc gaggccggcc ttaccacc atctcatgg gcatctact tgtctgtgg ctgacagtg ttgcatcti ctatgctc atccaccgcc aggtcaaacg agcagcacag gcactggacc aataagtt ggacagggca agcatccat ccaaccatgt ggccaggact gatgaggcca tgcctgtcgc ttccagagag ctggacagca ggttagcaltc agggagacc agtgaaggga tttcatcga gccagtcat gctgccaca ccagaccct ggagaggagc lcatcagaag tgggagacca gattcaacagc aagagagcta agcagatggc agagaaagc cctccagaag catctgccaa agocacca attaaaggag ccagaaagagc tccgattct lcatggat ttgggaaggt gactcgaatg tgtttgtc tgtctcgt ctggccgt agctacatcc cctctgtct gctcaacatt ciggatcca ggtccaggc tcccggttg gtcacatgc tigtgccaa cctcacctgg ctcaatggt gcatcaacc tgtgtctat gcagccatga accgcaatt ccgccaagca latggctcca tttaaaag agggcccg agttccata ggctccatga gaactgtac ctagtacc agaatcagg actgtctct ccaggacca agtggccaggg taalaggaga ataggtagaa taacacatgt gggcatcttc acaacaatc cccccagcc tcccaatca agtctcca tcaatgac aatgttcag cctagactg ccaaggagt attaatatt attaatatt gaattctgt ctttaaaaa aaaaaaata aaaaaa aaaaa	Homo sapiens
585	190418	Inflammation- Related G Protein-Coupled Receptor EX33	NP_065103.1	MWNSSDANFS CYHESVLGYR YVAVSWGTVV AVTGTGVNVL TLLALAIQPK P LRTRFNLLIA NLTLADLLYC TLLQPFSDVT YLHLHWRTGA TFCRVFGLLL FASNSVSILT LCLIALGRYL LIAHPKLPQ VFSAGKIVLA LVSTWVVGVA SFAPLWPIYI LVPVCTCSF DRIRGRPYT ILMGIYFVLG LSSVGIFYCL IHRQVKRAAQ ALDQYKLQQA SIHNSHVART DEAMPGRFQE LDSRLASGGP SEGISEPVS AATTQLEGD SSEVGDQINS KRAKQMAEKS PPEASAKAQP IKGARRAPDS SSEFGKVTRM CFAVFLCFAL SYIPFLLLNI LDARVQAPRV VHMLANLTW LNGCINPLY AAMNRQFRQA YGSILKRGP SFHRLH cttgctcca gagctaac accgtttctt cctccacag caaatatcti gagcagatc atctctccc agctgtggc aagaagacag A aagctctcti acaaciatc ctggcactc gctgtggccg acatctgtt cctctttt atagtgtt tggactctt gttggaagat ttcatctga acatgcagt gctcaggct ccgacaaga tcatagaagt gctggaatic tcatcatcc acactccat atggattact	Homo sapiens
586	190419	G Protein- Coupled Receptor Ls190419	AJ303165	cttgctcca gagctaac accgtttctt cctccacag caaatatcti gagcagatc atctctccc agctgtggc aagaagacag A aagctctcti acaaciatc ctggcactc gctgtggccg acatctgtt cctctttt atagtgtt tggactctt gttggaagat ttcatctga acatgcagt gctcaggct ccgacaaga tcatagaagt gctggaatic tcatcatcc acactccat atggattact	Homo sapiens

587	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	LCFRAPVFL LSTANILTVI ILSQLVARRO KSSYNVLLAL AAADILVLFF IVFVDFLLED FILNMQMPQV PDKIEVLEF SSHTSIWIT VPLTIDRYIA VCHPLKYHTV SYPARTKVI VSVYTTCFLT SIPYYWPNPNI WTEDYISTSV HHVLIWIHCF TVYL VPCSF FILNSIIVYK LRRKSNFRLR GYSTGKTTAI LFTITSIFAT L WAPRIIMIL YHL YGAPIQN RWLVHIMSDI ANMLALLNTA INFFLYCFIS KRFRIT	P	Homo sapiens
588	190427	Cysteinyln Leukotriene CYSLT2 Receptor	NM_020377	aaagtgtctaa ccatgtgacag gtaatacgcgt gcttgccacc cgtctcaagta ccacacggctc tcataccag cccgcacccg gaaagtcatt gtaagtgtt acatcaccttg ctccagacc agcatccctt attactggcg gccacaacatc tggactggaag actaatcatg caccctcttg catcacgtcc tcatctggat ccactgttc accgttacc tgggtcccttg ctccacttc tcatcttga actaatcat tgtgtacaag ctacaggagga agagcaattt tegtctcgtt ggtactcca cggggagagc caccggcatc tigtitaca ttaccctat ctltggcaca ctltggcc ccggcatcat catgattct taccactct atggggcgcc catcagaac cgttggcttg tgacatcat gtccgacatt gccacaatgc tagccctctt gaacacagcc atcaactct tctctactg ctatcatgc aagcggctcc gcac	A	Homo sapiens

589	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	ctccctgcag ggcagattat ggcaggcaat ttacattgt tgaatccatt tgaatcac accaagctc tgaattccat ttacagctg aagaattga agcttagaga aattagaag cttgttaag ttacacagc tagtaagagt tttaaaatc tctg/gcaga agt/gtggct gggtgctc cccaccacta ccttghtaa ctocaggaa gattgttga aagtgtgaat aaaagctgtc ctcttacc aattctcc ccctctcac ttcacaaaga aaacacaaag ttctctca gattgttga ctataglac aglaaagggt ggaagtgata tggcattcig aaagtaggga gggactaagt cagtcgtcat actaac	P	Homo sapiens
590	190437	G Protein- Coupled Receptor C5L2	NM_018485	YVFLQPKKS TSVNVFMLENL AISDLLFIST LPRADYYLR GSNWIFGDLA CRIMSYSLYV NMYSSYFLT VLSVVRFLAM VHPFRLHVT SIRSAWILCG IWLIMASS IMLLDSGSEQ NGSVTSCLEL NLYKIAKLQT MNYIALVVGCLLPFFTLSC YLLIRVLLK VEVPESGLRV SHRKALTTHI ILIIFFLCF LPYHTLRTVH LTTWKVGLCK DRLHKALVTT LALAAANACF NPLLYYFAGE NFKDRLKSAL RKGHPQKAKT KCVFPVSVWL RKETRV cctgtgtgcc acgtgtctgga caaatctaa cctctcaagg actcccaaaa ccaagacac caggagcctg aatggggaac gattcgtga gctacgagta tggggattac agcgacctt cggaccgcc tgtggactgc ctggatggcg cctgcctggc caltcgaccg ctgcgcgtgg ccccgctccc actgtatgcc gcatcttcc tgggtgggggt gcccgggcaat gocatgggtg cctgggtggc tgggaaggtg gcccgcggga ggggtgggtgc caactgtgtg ctacacctgg cctgtggcgga ttgtgtgc tgttgttc tgcctatct ggcagtgccc atggccgtg gaggccactg gcatgtatgtt gcatgtgggt gtcggggcgt gcccctcalt atctgtctga ccatgtatgc caggtctctg ctctggcag ctctatgct cgaactctgc ttctggctc tcgggctgc ctgtgtgtct acgtgtcagc ggggtgtgcg ggtgcaggtg gctgtggggc cagcctggac actggcctg ctgtcacgg tgccttcgc calctacgc cggctgcacc aggaagcactt ccaagcccg ctcaggtgtg tgggtgacta cggcggtctc tccagcaccg agaagcgtgt gactgccalc cggtttctt tggcttct gggggccctg gtcggccgtg ccagctgcca cagtgtccctc ctgtgtggg cagcccgaccg ctgcggcgag cttgggcacag ccatgtgtgt ggggtttt gtctgtggg caccctaca cctgtgtggg ctgtgtctca ctgtgtggc ccaagactcc gcatctctgg ccaggggcct gcccgtgga cccctcagc tgggcttgc cctgcctcac agctgtctac tccaggggag tccaggggag aggtgacaaag tgggtgacg ctcaactcc cgggtcagc ccagctgctt gtcactgggc cctgtgggag cctgtgggag tccaggggag aggtgacaaag tgggtgacg aagaatcca ccagccatga cctgtgtctg gtagtgaggg ttaggtggag aggtgacatg tgggtgtgtg tctctatc tcatctaca agactgtgtt caggccatgc tggatccagg agctcaatga tgtctcatt ttatctct cttatcaa cagatacca tcalgactt gctatgtga aggcctttt aggcactaga gatatagcag tgaacaaaac agacacaaat cctggcc MGNDSVSYEY GDYSDLSDRP VDCLDGLA IDPLRVAPLP LYAAIFLVGV PGNAMVAWVA GKVARRRVGA TWLLHLAVAD LLCCLSLPIL AVPIARGGHW PYGAVGCRAL PSIILLTMYA SVLLLAALSA DLCLALGPA WWSTVQRACG VQVACGAAWT LALLTVPSA IYRRLHQEHF PARLQCVDY GGSSTENAV TAIRFLGFL GPLVAVASCH SALLCWAARR CRPLGTAIVV GFFVCWAPYH LLGLVLTVA PNSALLARAL RAEPLIVGLA LAHSLNPM LFLYFGRAQLR RSLPAACHWA LRESQQDES VDSKKSTSHD LVSEMEV atgtctggcc ctgtgtctt gggctcagc ctctggctc tctgtaccc tgggtgagggg gcccattgt gctgtcaca gcaacttag algaaagggg actatgtct gggggggggc tccctctgg gctgagggcga ggaagctggc ctccgcagcc ggacacggcc cagcagccct gttgtcaca ggtacagag tgggtgagggc tgggtgaggg tgaaggtgac caggtctggg gtgtctctga gctggggccg aggtgtggcat ctgtgtgtt gttgtggcc aggttctt caaacggctt gctctgggca ctgtggcaltg aaalgccgtt ggaagagatc aacaacaaat ggaatctgt gcccgggctg cgtctggggt acgacctt tgalactgct tggagggcgt tgggtggcat gaaagccagc ctatgttcc tgggcaaggc aggtcagccgc gacatcgccg	A	Homo sapiens
591	190437	G Protein- Coupled Receptor C5L2	NP_060955.1	ctccctgcag ggcagattat ggcaggcaat ttacattgt tgaatccatt tgaatcac accaagctc tgaattccat ttacagctg aagaattga agcttagaga aattagaag cttgttaag ttacacagc tagtaagagt tttaaaatc tctg/gcaga agt/gtggct gggtgctc cccaccacta ccttghtaa ctocaggaa gattgttga aagtgtgaat aaaagctgtc ctcttacc aattctcc ccctctcac ttcacaaaga aaacacaaag ttctctca gattgttga ctataglac aglaaagggt ggaagtgata tggcattcig aaagtaggga gggactaagt cagtcgtcat actaac	P	Homo sapiens
592	190438	G Protein- Coupled Receptor Ls190438	LG94114	YVFLQPKKS TSVNVFMLENL AISDLLFIST LPRADYYLR GSNWIFGDLA CRIMSYSLYV NMYSSYFLT VLSVVRFLAM VHPFRLHVT SIRSAWILCG IWLIMASS IMLLDSGSEQ NGSVTSCLEL NLYKIAKLQT MNYIALVVGCLLPFFTLSC YLLIRVLLK VEVPESGLRV SHRKALTTHI ILIIFFLCF LPYHTLRTVH LTTWKVGLCK DRLHKALVTT LALAAANACF NPLLYYFAGE NFKDRLKSAL RKGHPQKAKT KCVFPVSVWL RKETRV cctgtgtgcc acgtgtctgga caaatctaa cctctcaagg actcccaaaa ccaagacac caggagcctg aatggggaac gattcgtga gctacgagta tggggattac agcgacctt cggaccgcc tgtggactgc ctggatggcg cctgcctggc caltcgaccg ctgcgcgtgg ccccgctccc actgtatgcc gcatcttcc tgggtgggggt gcccgggcaat gocatgggtg cctgggtggc tgggaaggtg gcccgcggga ggggtgggtgc caactgtgtg ctacacctgg cctgtggcgga ttgtgtgc tgttgttc tgcctatct ggcagtgccc atggccgtg gaggccactg gcatgtatgtt gcatgtgggt gtcggggcgt gcccctcalt atctgtctga ccatgtatgc caggtctctg ctctggcag ctctatgct cgaactctgc ttctggctc tcgggctgc ctgtgtgtct acgtgtcagc ggggtgtgcg ggtgcaggtg gctgtggggc cagcctggac actggcctg ctgtcacgg tgccttcgc calctacgc cggctgcacc aggaagcactt ccaagcccg ctcaggtgtg tgggtgacta cggcggtctc tccagcaccg agaagcgtgt gactgccalc cggtttctt tggcttct gggggccctg gtcggccgtg ccagctgcca cagtgtccctc ctgtgtggg cagcccgaccg ctgcggcgag cttgggcacag ccatgtgtgt ggggtttt gtctgtggg caccctaca cctgtgtggg ctgtgtctca ctgtgtggc ccaagactcc gcatctctgg ccaggggcct gcccgtgga cccctcagc tgggcttgc cctgcctcac agctgtctac tccaggggag tccaggggag aggtgacaaag tgggtgacg ctcaactcc cgggtcagc ccagctgctt gtcactgggc cctgtgggag cctgtgggag tccaggggag aggtgacaaag tgggtgacg aagaatcca ccagccatga cctgtgtctg gtagtgaggg ttaggtggag aggtgacatg tgggtgtgtg tctctatc tcatctaca agactgtgtt caggccatgc tggatccagg agctcaatga tgtctcatt ttatctct cttatcaa cagatacca tcalgactt gctatgtga aggcctttt aggcactaga gatatagcag tgaacaaaac agacacaaat cctggcc MGNDSVSYEY GDYSDLSDRP VDCLDGLA IDPLRVAPLP LYAAIFLVGV PGNAMVAWVA GKVARRRVGA TWLLHLAVAD LLCCLSLPIL AVPIARGGHW PYGAVGCRAL PSIILLTMYA SVLLLAALSA DLCLALGPA WWSTVQRACG VQVACGAAWT LALLTVPSA IYRRLHQEHF PARLQCVDY GGSSTENAV TAIRFLGFL GPLVAVASCH SALLCWAARR CRPLGTAIVV GFFVCWAPYH LLGLVLTVA PNSALLARAL RAEPLIVGLA LAHSLNPM LFLYFGRAQLR RSLPAACHWA LRESQQDES VDSKKSTSHD LVSEMEV atgtctggcc ctgtgtctt gggctcagc ctctggctc tctgtaccc tgggtgagggg gcccattgt gctgtcaca gcaacttag algaaagggg actatgtct gggggggggc tccctctgg gctgagggcga ggaagctggc ctccgcagcc ggacacggcc cagcagccct gttgtcaca ggtacagag tgggtgagggc tgggtgaggg tgaaggtgac caggtctggg gtgtctctga gctggggccg aggtgtggcat ctgtgtgtt gttgtggcc aggttctt caaacggctt gctctgggca ctgtggcaltg aaalgccgtt ggaagagatc aacaacaaat ggaatctgt gcccgggctg cgtctggggt acgacctt tgalactgct tggagggcgt tgggtggcat gaaagccagc ctatgttcc tgggcaaggc aggtcagccgc gacatcgccg	A	Homo sapiens

AQDPVKPWQL LENMYNLTFH VGGLPLRFD SGNVDMEDYL KLVVWQGSVP
RLHDVGRFNG SLRTERLKIR WHTSDNQVRP QACAQKPVSR CSRQCQEGQV
RRVKGFHSCC YDCVDCEAGS YRQNPDDIAC TFCGQDEWSP ERSTRCFRRR
SRFLAWGEPA VLLLLLLSL ALGLVLAALG LRVHHRDPL VQASGGPLAC
FGLVCLGLVC LSVLLFPQP SPARCLAQOP LSHLPLTGCL STLFLQAAEI
FVSELP LSW ADRLSGCLRG PVAWL VVLLA MLVEALCTW YLVAFPPEVV
TDWHMLPTEA LVHCRTRSWV SFGLAHATNA TLAFCLFLGT FLVRSQPGRY
NRARGLTFAM LAYFITWVSF VPLLANQVV LRPVQMGMAL LLCVLGLAA
FHLPRCYLLM RQPLNTPEF F

Homo sapiens

A

LG95579

G Protein-Coupled Receptor
Ls190484

190484

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tcgactggc tggctctct gctgcctcg ggcctttica ctcctctggt gggcctgctggt gttctctggac cctcacgtgg ggcctgctgoc
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ggactccag catctcag gacagctct cgtctgctca gaaatccagg cagatgacca ggtctgtacca ccaagcggca
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aatcaatg ggtgtgagt accgagtat ggaaggagc tgcgtgtcat ctccaggcaa gtcaccatcc ctccctggc
catgtcat acccttag taattact atggcagg cttgagtg atgactat ggaagctca tacaatctac ttacag

Homo sapiens

P

ENSMPT2619

G Protein-Coupled Receptor
Ls190484

190484

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MEADLGATGH RPRTELDDED SYPQGGWDTV FLVALLLGL PANGLMAWLA
GSQARHGAGT RLALLLSLA LSDFLAA AFQLEIRHG GHWPLGTAAC
RFYFLWGV YSSGLFLAA LSDRCLLAL CPHWYPGHRP VRLPLWVCAG
VWVLAFLSV PWLVFPEAAV WWYDLVICLD FWDSEELSLR MLEVGGFLP
FLLLVCHVL TQATACRTCH RQQPAACRG FARVARTILS AYVVLRLPYQ
LAQLLYLAF LWDVYSGYLLW EALVYSYLI LLNSCLSPFL CLMASADLRT
LLRSVLSFA AALCEERPGS FTTPETQTL DSEGTLPPEP MAEAQSQMDP
VAQPQVNP TL QPRSDPTAQP QLNPTAQPS DPTAQQLNL MAQPQSDSVA
QPQADTNVQT PAPAASSVPS PCDEASPTPS SHPTGALED PATPPASEGE SPSSTPPEAA
PGAGP

596	190595	G Protein- Coupled Receptor SH120	NM_016334	A	<p>agcaccctggg aaaaggcaga ccgtgttgagg gggccctggg cccagcgtg ctgtggccct gggggagtgagg aagtgaggagc aggagccctc ctacactc gccatggt tctgtatcga ctacagcacc atgataact cccaataact atttttga ttgggtggc ttttctcat ggcgaattg ttgaagact atgagatagc tcatgtgt gtacaggga tcttccgt gaegtgtga tttcttga ccaatttga gctcalc tttgaattc taggagatt gaaatagcag tccgttatt ttacttggaa aatgaaccgt tgcgtaatc tgcgatcct ggtttcag gtgcctttt acattggcga ttattgtg agcaatatc gactatcga taaacaacga ctgcctttt cctgtcttt atggctgacc ttatgtatt tctctggaa actaggagat ccccttccca ttctcagcc aaacataggc atctatoca tagaacaact catcagcccg gtgtgtgtga ttggagttag tctatggt cttcttgc gatttggtgc tgcacactg ccalacact acatgtctia ctctcagc aatgtgact acacagatatt tctagccctg gaaaggcagc tgcgtcaaac catggatag atcalaaga aaaagaaaag gattggcaatg gcacggagaa caatgtcca gaaagggggaa gtgcataaca aacatcagg ttctgggga atgataaaa gtgtacac ttacatca ggaagtgaaa atctact tttcaacag gaaagtgtgctg cttgggaa attaagcagg cagcttttc tggaaacagc tgaatatt gctacacagg agagaataga atactccaaa accctcaagg ggaaatatt taatttct ggttacttt tctattia ctgtgttg azaatttca tggctacat caatattgt ttgacgag ttgggaaaac ggaatcgtc acaagaggca ttgagatcac tgtzaattat ctgggaatcc aatttgatg gaaagtgtg tccaacaca tttcttcat tctgttga ataatcagc tcaatccat cagaagattg ctgacact ttacaaagt cttttatgcc atctataga gtaagtcc ctatgtcat gtctgtat tagcaagat aatgggcagc tacttctt cctgtgtct gctgatccga atgagtatgc ctttaaata ccgcaccata atcactgaag tcttgggaga acgtgacgt acgttctatc accgttgggt tgaatgtatc ttctgtgca ggctcttc tagcatatc ttcttatt tggctcaaa acaggcaca gagaagcaca tggcaccttg aactaaagcc tactacagc tgttagggc cagtggttc azaattaga tataagagg ggggaaaatg gaaacgggc ctgacattt ataaacaac aaaaatct ggttagcatt ttacactca tagcatatc ctccctc aggttagatc atgacataga gtagcatcag ccagaacatg agaggagaa ctactcaag acaatctca gcagagagca tccgtgttgg atatggagct ggtgtatgagg cggagaggag ccagaacact aaggtgaaa aatcacctgg aactcgtgg caagacatgt ctatggtagc tgaagcaaac acgtttat tccgtttta ggttcatg gaaaggtta tagcttggc ttgagtga ctaataaaa tcaagactg t MSFLDSSIM ITSQILFFGF GWLFFMRQLF KDYEIRQYVV QVFSVTF AF SCTMFELIIF P EILGVLNSS RYFHWKMNL C VILLVFMV PFYIGYFVS NIRLLHKQRL LFSCLLWLTF MYFFWKL GDP FPILSPKHGI LSIEQLISRV GVIGVTLMAL LSGFGA VNC P YTYMSYFLRN VTDTDLALE RRLQTMDMI ISKKRMAMA RRTMFQKGEV HNKPSGFWM KSVTTSAS SENLTIQOE VDALEELSRQ LFLETADLYA TKERIEYSKT FKGYFNFLG YFFSYCVWK IFMATINIVF DRVGKTDPTV RGIEITVNYL GIQFDVKFWS QHISFILVGI IIVTSIRGLL IITLKFFYAI SSSKSSNVIV LLLAQIMGY FVSSVLLIRM SMPLEYRTII TEVLGELQFN FYHRWFDVIF LVSA LSSILF LYLAKHQAPE KQMAP</p>	Homo sapiens
597	190595	G Protein- Coupled Receptor SH120	NP_057418.1	P	<p>aggtgcagag cggcgctgctg tggagcgggg ggcgcggccg cgcgcagag atgtgactg ggcggaaagg cagctgtgagc gtcggcgtc cggggccggc ggggtcgaaat gtctgtggca tcaagagaa agatgagagc tcacaggtg ctacacttcc tctgtcttt cgtgtatcacc tctgtgtgct ctgaaacgc cagcatacc cgaagctgtg ggtcgtgacct cctccctcag tacgtgtccc tgtgtgacct ggaagccatc tggggcatig tgggtgaggg ggtggccggg gggggccccc tgalcacact gctcctgatg ctatctcc tgggtcggct gcccttcatc aaggaagaaag agaaagaaag cctgtgtggc ctacacttc tgttctctt ggggaacctg ggcctcttgg ggtgtgacct tgccttcatc atccagaggg acgagaccat ctgtctgtc cggccgttcc tctggggcgt cctcttggc ctctgtctt cctgtctt cgtgtgtg ggtgtgtg tgggtgtg ggtgtgtg gggtgtgtg acgggtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg tgggtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg</p>	Homo sapiens
598	190599	G Protein- Coupled Receptor GPC5B	NM_016235	A	<p>aggtgcagag cggcgctgctg tggagcgggg ggcgcggccg cgcgcagag atgtgactg ggcggaaagg cagctgtgagc gtcggcgtc cggggccggc ggggtcgaaat gtctgtggca tcaagagaa agatgagagc tcacaggtg ctacacttcc tctgtcttt cgtgtatcacc tctgtgtgct ctgaaacgc cagcatacc cgaagctgtg ggtcgtgacct cctccctcag tacgtgtccc tgtgtgacct ggaagccatc tggggcatig tgggtgaggg ggtggccggg gggggccccc tgalcacact gctcctgatg ctatctcc tgggtcggct gcccttcatc aaggaagaaag agaaagaaag cctgtgtggc ctacacttc tgttctctt ggggaacctg ggcctcttgg ggtgtgacct tgccttcatc atccagaggg acgagaccat ctgtctgtc cggccgttcc tctggggcgt cctcttggc ctctgtctt cctgtctt cgtgtgtg ggtgtgtg tgggtgtg ggtgtgtg gggtgtgtg acgggtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg tgggtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg ggtgtgtg</p>	Homo sapiens

599	190599	G Protein-Coupled Receptor GPCR5B	NP_057319.1	<p>atctacgaca tggactgct tgggtgac ccggggctgg ccctcttcac tctgtcggc aagttcaaga ggtggaagct gaaaggggcc ttctctca tcacagccct cctctctgtg ctaicttggg tggccctggat gaccalgtac cttctggca atgtcaagct gcagcaggggg galgccctggg acgacccac cttggccalc acgtggccgg ccaggggctgg ggtcttcgic atcttcacg ccatccctga gttccactgc accctctgc cagccctgca ggaagaacacg ccaactact tgcacacgic gcagccacgg atgggggaga cggccttcga ggaaggagtg cagctggccg gggtccctat ggaagaacag gctcttcca tggatgaaca caatgcagct ctccgaacag caggaattcc caacggcagc ttgggaaaaa gacccagtgag cagcttgggg aaaaaccca ggcctccgtt tagaagcaac ggtatcagc caactgagat ggccgtcgtg ctcaacggtg ggaacalccc aactgctccg ccagtcaca cagggaagaca cctttgggga aagactttaa gttccagaga atcagaattt ccttaaccga ttggctccc tggctgtgic ttcttgagg gaaatcgg taacagtg cgaacacggc cgcctcacag caggaaat tggaaatct agccaagggg attctgta aatgtgaaca ctgacgaact gaaagctaa caccgagtc ccggccctcc cctggccacac acacagacac gtaaacag accaacctca atcccggca actaaagcaa agctaattgc aataatgatt aggtctcactg gaaatgttgg ctgggagagac tgtttcatc tctgggggga gaaacagaac aaattcacag ctggggggcc agacgtgggt tggttggaggg tgggggggctc ccactctat cactctcc cagcaagtg tggacccag gtagccctctt ggaatgaccc gttgcgttga ggacaatgg ggaacttggc accggctgc ctgggtgggt gcacattca gggggggcag gaaagttaa gaaagttgtg gtgggattcc aaggtgaagg ccaactgaaat cgtgggggga gctttatgc cagtaagaggt ggaaggaccc tggcagtg caagaagagg gccctctggg tgaagagg accatcat ttggaaagtg atcaaacct gttctctta tgggggctct gcttaatgt ctaigtggg aacacaggcc ccggccctc cctgtgagg ccatagaat atttggctt gggggcagcag tccctctc ccttgatc ctggccctgt tctaacct accgggtgt ctcaaatcc tctccatt ttatccct altatctca agagctccaa tggggctcc agctgaagc ccctcggga ggcaggttgg aaggcaggca ccacggcagg ttctccgga tgaatgaccc tagcagggtc tgaagggttc ccactaggat gcaagagatga cctctgcgt cctcaacg agtgcacct cgggtccctt ccgtgtctal ggtgaaat cctggatga alggaatcaca tgaagggttc tgggttgc tgaagggtt ggggggaltt tggttgg ttctcagc gttccatga aacagccct ttcaagcc attgtctg tcaaggct cactgtctt gagaagatca ttcttgtt atttgcatt tgaacalc cggccattca aagccccc atgtctgc gttcttgc agataacct ctggcagc tcaaaagcag agttaaoc tgaaggcag gaatgataa algagggtgg gttctctgc agatactca atcaactat tgcctttct ataaactac ccataagcc ttacctta aagaaatg aaaaaggta gtttgggg ggggggggag gacgacgg ttaataagcc agacgtctg agctgagat gttcaata accctttgat atttcaaa aaaaaaaa aaaaaaaa LDAIWGIVVE AVAGAGALIT LLLMLLLVR LPFIKEKEK SPVGLHFLFL LGTGLFGLT FAFIQDET ICSVRRFLWG VLFALCFSL LSQA WRVRRL VRHGTGPAGW QLVGLALCLM LVQVIA VEW LVLTVLRDTR PACAYEPMDF VMALYDMVL LVVTLGLALF TLGKFKRWK LNGAFLLITA FLSVLIWVAV MTMYLFGNVK LQQGDWNDP TLAITLAASG WVFVIFHAP EIHCTLLPAL QENTPNYFDT SQPRMRETAF EEDVQLPRAY MENKAFSMD EHNALRTAGF PNGSLGKRPS GSLGKRPSAP FRSNVYQTE MAVVLNNGGTI PTAPPSHTGR HLW ggtgctcga ggtggggga gggccggccc ctgcagtcgg gagacgaacg cagcgacggc gctccggag gcaggttcgg ctggaaaggaa ccgtctcgc ttgctctac acttgcgcaa algcttcga gttactcac atagcatatt ggtatataa aatgaaatgc aaggaaacca aataacala atgaagga gtaaaagtga aatlaaag gaaagatc atgcaaggaa gacccactgg agaaggacaga aatgaagca gttttatc atgtgattt cagcaggtct tctgaaat taactaaaa tatgactct cttctcag agaactgctc ttltacac cagttacac aaacaaacca gcccttagac gtaaatc tctattctt galcatatc gggaaaaat tattaaat ccttacacia ggaatgaga gaaaaaacac ctgtcaaaat ttattgcat ttactagca ttcttgatc</p>	P	Homo sapiens
600	190602	G Protein-Coupled Receptor GPCR150	NM_014373	<p>ggtgctcga ggtggggga gggccggccc ctgcagtcgg gagacgaacg cagcgacggc gctccggag gcaggttcgg ctggaaaggaa ccgtctcgc ttgctctac acttgcgcaa algcttcga gttactcac atagcatatt ggtatataa aatgaaatgc aaggaaacca aataacala atgaagga gtaaaagtga aatlaaag gaaagatc atgcaaggaa gacccactgg agaaggacaga aatgaagca gttttatc atgtgattt cagcaggtct tctgaaat taactaaaa tatgactct cttctcag agaactgctc ttltacac cagttacac aaacaaacca gcccttagac gtaaatc tctattctt galcatatc gggaaaaat tattaaat ccttacacia ggaatgaga gaaaaaacac ctgtcaaaat ttattgcat ttactagca ttcttgatc</p>	A	Homo sapiens

601	190602	G Protein-Coupled Receptor GPCR150	NP_055188.1	<p>ttttactttt ggaaacatt tccattatatt tgiatticag ggatttitta ctttaagca taggttcac taalaccac atctgoclat tactcaat tatttcttt actatggct ttggcaltt tccaggttt gtagagttt gtagagttt tggcctgaat ticttaaa caaccaagt ttcatthaag tgcataaat tatttttt tttaacagtt atttaattt ggaatticagt ccttgcttat gttttgggag accagccat claccaagc ctgaagccac agaalgtcta tictgtcac tggctttct atgtcagcat tcaaggttac tggctgtcat ttttcaggt galtattta ttgtagct tcaaacctg ttgggaagaa gttactact tggtagagg taccaggata acttctata tgaatgaac tatctatatt ttcttttt catccactc cagttatct gtagagttt aaaaattt cttalccaag ctatgtct gttttcag taccgtgta ccatgtgac atctcaggt atctatgt ttacttaag tcaagttcc agcatattt gtagatgaata ttccctgtt atactgttc aatgtttt tcatgttac agttgtatgg ttatgttg tcaagttt aaagaagac attgtgttac ctttgtatcc attgtcaac tggaaagt gcttcatcc acttaattt cctaatctt agcaaatga aaagcctata tcaataatga ttgttaata ttatattta aagttacag ctgtcataag atcataatt ttgaacaga aagaactcag gacattat aaalaac gaactaaac aactttgccc cctgactga tagcatlta gaaagtgt ttgaagggc talaccagt ataaatagt gttttttt aaaaacaaa taattocaag aagttttat agttatcag ggaactata ttacaatat tacttgta ttacacaaa aagttgataag agttacatt tggctatct galtgttg ttactaaa aaactatgg atgcaactg ttatgaaat ctgagattt actgacaact ttaagatc aacctaaata ttttttaa atgtcaaat gtaagcaaga aaaaaaaa</p>	P	Homo sapiens
602	190623	Melanopsin	AF147788	<p>MTALSSNCFS FOYQLRQTNQ PLDVNYLLFL ILGKILLNI LTLGMRKNT QNFMETFCI SLAFVDLLL VNISILYFR DFVLLSIRFT KYHICLFTQI ISFTYGLHY PVFLTACIDY CLNFSKTKL SFKCQKLFYF FTVLIWISV LAYVLGDPAL YQSLKAQNAY SRHCPFYVI QSYWLSFFMV MLFVAFITC WEEVTLLVQA IRITSYMNET ILYFPSSHS SYTVRSKKIF LSKLVCFLS TWLPFVLLQV IIVLLKVQIP AYTEMNPWL YFVNSFLIAT VYWFNCHKLN LKDIGLPLDP FVNWKKCCFIP L TIPNLEQIE KPISIMIC</p> <p>gggtccacc catcagca cagttctcag ccagagacagc ttggagcagca gtagtcatag gagacatctg gaggtcaggg cttccacgc gggccctctg gctccatgg atggcagggct ccggggcagagc gagctgocag gttgggtgtgg gtagcanaagg ttggagcaa gagggccatg gggagccctcc ccagtggggac agaaagcagc gagtgggggg gttggggccct gagggtatct cagttcacc cgaacgggt gtagtgacg gcccagtgag aagggacatt gtcagggtgag acgtggggcti ccaagggccc caggctgggg gttccgagtc ctctgatt ttccctgggt gctcttga gggctgtggg accctgggta tgggtttcc cgtccatgt gtccactga caagcactc tccctggac tctgtgct gctccatc ctgacccct ctagccctca ccttgccccc aggggtggct agtgggggctt acattgaag ggaagttgtg ttgactcaga attgctcca gctgtgagga atgttaaac ccttactata aaacgcaagc agctggcatt gtagcttaggg acagaaagaa aagccggccc ctagccctca ccttgccccc aggggtggct ctgtgagcca aagccctgaa gtaggaagag ctaggagga agggcagtcg agccatgggg tggcagctgc aggaagata gctccctgc ccagtgagg gctctccat tctctccatc aaactgggg ctagagga actgtttgta aagactgggg gaactctgg aaggggag atactctgt ccactccag gctccacac tccacagcact gttccagggac atggccccc ctagagga cccgtgccc gttggggctc cctaaacgca gctctgtg gtagggctag cccgagcagc cctccctggg agccgtgt ttagcttcc ttctccag cctctgct cctcttaag acagggcag gggcagccc ggggtccct ccactctga catcagta acttgatca gggctgaggg cctgggtgag ttccctggag tctccataa aggttttaa aatcttat acttaaaa ttctgccc ggcaggtgg tccagctgt aatctggca ctgtgggag ccgaggtggg tggatccct gggtcagga gttcagact agccaggga acatgtgaa cctctgctc ttccagga cttggggag ccgaggtggg tggatccct gtgggaggt cctgtaacc cagttatcag gggaggtgag gtaggtgag tcttgagc tgggagggc aagttgag gagctgagat tgcacatg cactcaggg tgggtgagc agcaagatc tctcaaaa atataaaa aaaaaaaa acttttat caaaaaa gcaaaagcc cctgtgtg tgaicacc ctactgtac atctctctg tgttccatc tggaaagg</p>	A	Homo sapiens

[illegible]

[illegible]

[illegible]

604	190627	G Protein- Coupled Receptor GPR41 & GPR42	NM_005304	GTWAAAWVPL PTVDPDHAH YTLGTVLLV GLTGMLGNLT VIYTCRSRS LRTPANMFII NLAVSDFLMS FTQAPVFFTS SLYKQWLFG TGEFYAFCG ALFGISSMIT LTAIALDRYL VITRPLATFG VASKRRAAFV LLGVWLYALA WSLPPFFGWS AYVPEGLLTS CSWDYMSFTP AVRAYTMLLC CFVFFLPLLI IYCYIFIR AIRETGALQ TFGACKNGE SLWQRQLQS ECKMAKIMLL VLLFVLSWA PYSAVALVAF AGYAHVLTYP MSSVPAVIK ASAHNPITY AITHPKYRVA IAQHLPCLV LLGVSRHSR PYPYSRSTHR SLTSHTSNL SWISIRRRQE SLGSESEVGW THMEAAAVWG AAQANGRL YGQGLEDELEA KAPPRQGHE AETPGKTKGL IPSQDPRM	sapiens
605	190627	G Protein- Coupled Receptor GPR41 & GPR42	NP_005295.1	atggatcacg gccccgacca gtctacttc tcggccaalc actgggtcgt ctctcggg tgaccttca ctctcgtt ggagctcccc ctcaactgc tggccctcgt ggctcctg ggcaagctgc agcccgcccc ggtagccggg gacgtgctcc tgctcaact gaocgcctcg gaocgtccc tgcgtcgtt cctgccttc cgcattgggg aggcagccaa tggcagtcac tggccccctg ccttcaact ctgccactc tcttgattca tctttcac caccattat ctacccgcc tctctggc agctgtgagc attgaacgt tcttgagt ggcccccca ctgtgtgaca agaccggcc gggtctgggg cagggcaggtc tgggtgagtg ggccctcctgg ctgtggct ctctactg cagcgtgtg tacgtcalag aattctcagg ggaacatcc caccagccagg gcaaccaagg gaactgtac ctggagttcc ggaaaggacca gctagccalc ctctgccg tgcggctgga gtaggtctgg gtctcttg tggccccgt gattcaccc agctactgt acagccgctt gggtggatc ctgggcaag ggggcagcca ccgocggcag aggaggggg cggggctgt ggccggccag ctgtcaact tctgtctg ctggggcc tacaacgtt ccaatgct gggtalalc tgcgggaaa gccggcag gaggatcac gtagccttc tcaacacct gaactcgt gtgacacct tgttacta ctctctcc tccggctc aagccgact tcatgctg ctgaggagt tgggtgggt ctggggccag tggcagcagg agagcagct ggagctgaag gtagcgaagg gaggggaga gtagagagc gaccgacag ctgaaagaa gaccagtaa cactcagc gctgtggaac tgggtggcag gtagcttg ctgaaagta g MDTGPQSYF SGNHWFVFS YLLTFLVGLP LNLLALVVFV GKLQRRPVAV DVLNLTAS DLLLLFLPF RMVEAANGMH WPLPFLCPL SGFIFFTIY LTALFLAAVS IERFLVAHP LWYKTRPRLG QAGLVSACW LLASAHCSVV YVIEFSGDIS HSQGTNGTCY LEFRKDQLAI LLPVRLEMAV VLFVPLIIT SYCYSRLVWI LGRGGSHRQ RRVAGLLAAT LLNFLVCFGP YNVSHVVGVI CGESPAWRIV VTLSTLNSC VDPFVYFSS SGFQADFHEL LRRLCGLWGQ WQOESSMELK EQKGEEQRA DRPAERKTS HSQGGGTGGQ VACAES caagactgt cctctgoc gactaaca gattggagcc atggcttg agcagaaca gcaacagat tattatag aggaaaatga aatgaatggc actatgact acagtcaata tgaactgac tgaatcaag aagatgtcag agaattgca aaagtucc tccctgatt cctcaata gtttcgca tggactgc aggcattcc atggtaggg caattatgc ctattacag aaacagagaa ccaaaacaga tgtatcac ctgaattgg ctgtagcaga ttactcct ctatctac tgcctttg ggctgttat gcagttcag ggtaggttt agggaaaata atgtaaaaa taactcag ctgtacaca ctgaattg tcttggaat gcagtttct gctgtatca gcatagacag atatggga gtaactaaag tcccagcca atcaggagg ggaataccat gcaggatcat ctgttctgt gtctggatgg ctgccatct gctgaagcatal cccagctgg ttittatc agtaattgac aatgtagg gattccat ttccccgc taccagagaa catcaatgaa agcatgatt caaatgctag agatcgtg ctgaattgta gtaccccttc ttattagg gggtgtctac ttatcacag caaggacat calgaagatg ccaaacatta aatatctg acccttaaac gttctgctca cagtgtat agtttcat gtactcaac tgccttaaa catgtcaag tctggcag ccatagacat cacttacc ctgatcca gcctgcaacat gagcaaacgc atggacatcg ccatcaagt cacagaaagc atgcactct ttacagctg cctcaacca atcttatg	Homo sapiens
606	190701	C-C Chemokine Receptor 11	NM_016557	atggatcacg gccccgacca gtctacttc tcggccaalc actgggtcgt ctctcggg tgaccttca ctctcgtt ggagctcccc ctcaactgc tggccctcgt ggctcctg ggcaagctgc agcccgcccc ggtagccggg gacgtgctcc tgctcaact gaocgcctcg gaocgtccc tgcgtcgtt cctgccttc cgcattgggg aggcagccaa tggcagtcac tggccccctg ccttcaact ctgccactc tcttgattca tctttcac caccattat ctacccgcc tctctggc agctgtgagc attgaacgt tcttgagt ggcccccca ctgtgtgaca agaccggcc gggtctgggg cagggcaggtc tgggtgagtg ggccctcctgg ctgtggct ctctactg cagcgtgtg tacgtcalag aattctcagg ggaacatcc caccagccagg gcaaccaagg gaactgtac ctggagttcc ggaaaggacca gctagccalc ctctgccg tgcggctgga gtaggtctgg gtctcttg tggccccgt gattcaccc agctactgt acagccgctt gggtggatc ctgggcaag ggggcagcca ccgocggcag aggaggggg cggggctgt ggccggccag ctgtcaact tctgtctg ctggggcc tacaacgtt ccaatgct gggtalalc tgcgggaaa gccggcag gaggatcac gtagccttc tcaacacct gaactcgt gtgacacct tgttacta ctctctcc tccggctc aagccgact tcatgctg ctgaggagt tgggtgggt ctggggccag tggcagcagg agagcagct ggagctgaag gtagcgaagg gaggggaga gtagagagc gaccgacag ctgaaagaa gaccagtaa cactcagc gctgtggaac tgggtggcag gtagcttg ctgaaagta g MDTGPQSYF SGNHWFVFS YLLTFLVGLP LNLLALVVFV GKLQRRPVAV DVLNLTAS DLLLLFLPF RMVEAANGMH WPLPFLCPL SGFIFFTIY LTALFLAAVS IERFLVAHP LWYKTRPRLG QAGLVSACW LLASAHCSVV YVIEFSGDIS HSQGTNGTCY LEFRKDQLAI LLPVRLEMAV VLFVPLIIT SYCYSRLVWI LGRGGSHRQ RRVAGLLAAT LLNFLVCFGP YNVSHVVGVI CGESPAWRIV VTLSTLNSC VDPFVYFSS SGFQADFHEL LRRLCGLWGQ WQOESSMELK EQKGEEQRA DRPAERKTS HSQGGGTGGQ VACAES caagactgt cctctgoc gactaaca gattggagcc atggcttg agcagaaca gcaacagat tattatag aggaaaatga aatgaatggc actatgact acagtcaata tgaactgac tgaatcaag aagatgtcag agaattgca aaagtucc tccctgatt cctcaata gtttcgca tggactgc aggcattcc atggtaggg caattatgc ctattacag aaacagagaa ccaaaacaga tgtatcac ctgaattgg ctgtagcaga ttactcct ctatctac tgcctttg ggctgttat gcagttcag ggtaggttt agggaaaata atgtaaaaa taactcag ctgtacaca ctgaattg tcttggaat gcagtttct gctgtatca gcatagacag atatggga gtaactaaag tcccagcca atcaggagg ggaataccat gcaggatcat ctgttctgt gtctggatgg ctgccatct gctgaagcatal cccagctgg ttittatc agtaattgac aatgtagg gattccat ttccccgc taccagagaa catcaatgaa agcatgatt caaatgctag agatcgtg ctgaattgta gtaccccttc ttattagg gggtgtctac ttatcacag caaggacat calgaagatg ccaaacatta aatatctg acccttaaac gttctgctca cagtgtat agtttcat gtactcaac tgccttaaa catgtcaag tctggcag ccatagacat cacttacc ctgatcca gcctgcaacat gagcaaacgc atggacatcg ccatcaagt cacagaaagc atgcactct ttacagctg cctcaacca atcttatg	Homo sapiens

607	190701	C-C Chemokine Receptor 11	NP_057641.1	<p>ttttatggg agcatcttc aaaaacacacg ttaagaaagt ggccaagaaa taiggtgctt ggaagaagaca gagaacaagt gtagagagagt ttectttga ttctgaagggt cctacagagc caaccagtag tttagcatt taagagtaaa acgtctcgc ctttgcttg galacataig aalgatgctt tccctcaaa taacaacatct gcatatctt gaanaactaaa tctacagcgc cgttggttga actataata aagaatgggt tggggggaagg gggagaaata aagccaaga agaggaagaca agataataaa tgaataaac algaaataa aaatgaaca tataggaata taatgtaac aggcataagt gaataacact ctctgtaac gaagaagagc ttgtgtgtga taatttgtia tcttggtgc agtggtgctt atacaatct acagaatga taatagaca cagaatata tacacaatt giacaatt caattctc gtttgacat tatagtataa ttatgtaga tgaacacatt ggggaaaaact ggggtgaaggg tacccaggac cactctgtac catcttgtia acttctctg aatttaaat aatttcaaaa taacaacagt taataaaaa cccactatg tataagtlag gccatctaaa acagattatt aaaagggtc algtaaaag gcatttataa ttattttiaa ttatctaa gaacgatnc cctgcataat tttagtact gaataagat gcagcagaac tcaactatc ttittctcgt ttttttaa attgtaaagt aatttttaa aatccaccc cccaaaaaa gcaataaaaa aaaaacaac tataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa</p>	P	Homo sapiens
608	190705	G Protein-Coupled Receptor SALPR	NM_016568	<p>MALEQNQSTD YYEENEMNG TYDYSQYELI CIKEDVREFA KVFLPVFLTI VFVIGLAGNS MVVAIYAYYK KQRTKTDVYI LNLAVADLLL LFTLFWAVN AVHGWLGIK MKKITSALYT LNFVSGMQFL ACISIDRYVA VTKVPSQSGV GKPCWICFC VWMAAILSI PQLVFTYVND NARCIPFR YLGTSMKALI QMLEICIGFV VPFLJMGVCY FITARTLMKM PNIKISRPLK VLLTVIVFI VTQLPYNIVK FORAIDIYS LITSCNMSKR MDIAIQVTES IALFHSCLNP ILVFMGASF KNYVMKVAKK YGSWRRQRQS VEEFPDSEG PTEPTSTFSI</p> <p>gatttgggga gtagtggcc agtgcocag tgaocgggg acacggagag gggaagtcgt cgttgtacat aaggacctag ggactccgag ctggctcga gaacocctgg acgcogagtg ctgctctac gggctgact cctcaactct gctocaaagc agccgcigag ctcaactct ggttcaaggg cgttcgctgc ggcocaggac ggccttagta cccagtctt gggctctctc ttcagtagct gctttgaag ctccacgca cgttcocgag gctagccctgg caaataaact ggggttaaaacc gtttatct aggctctgtc cccagaaca tgaactagag gtacccggc atgcagatgg ccgatgcag cagctatagcc accatgaata aggcagcagg cggggagacaag ctacagagaac tctcagct ctgtcccgag ctctggaggg cggccaacac gtagtgaatac gcctcgtcgc agcttccgga ctgtgtgtgtgt gtagctgtgggg tggagttggcc cggcaggagc cggccaagac atcccgggg cagcggcggg gcaagagagc cggacacaga gggccggggg cggattctca tcaagctgtgt gtagtggggg gtagtggggc tgggggtggc gggcaacctg ctgttctct acctgaaga gtagcagtcag ggtctggggca agtctctat caactcttc gtccaacc tgggcctgac ggaacttcag ttgtgtctca cctgtccct ctggggggg gtagaagctc tfgacttcaa atggcccttc gggcaaggcca ttgtgaagat cgtgtccatg gtagcgtcca tgaacagta cggcaggagc tttctctca ctggccatgag ttgtacggc taccattggg tggctcgggc tctgaagagc caccggagcc gtaggacacagg ccgggggggag tgcctggggc gtagccttggg gtagcagctgc tgcctcggg ocaaggcgtct gttgtgtgtgt atctggggctt tggccggct ggccctggctg cccagtgcca ttcttccac caccgtcaag gtagtggggc agggagctgtgt cctgggtgtgt ttccgggaca agttgtgtgg ccggagcagg cagttctggc tggggctctca ccaactggcag aaggtgtgtgt tggggctgtgt gctgtcgtgt ggcatcata tctgtgtca cctgtgtgt gtagcgtctca tggccgggag ccggcggggc ggggacacaaag gtagggggccgc ggtagccggga gtagccggga ccggagggcagg cggccgggga ctgtgtgaagg tcaaccaatc agtgaacalc gttgtctgt ccttctct gttgtggctg ccaacacagg cgtcacacc ctggagcalt cttacatgt tcaacgggt ggccttcagc caggagatatt tctgtgtcca ggtatagctg ttccctgtga gctgtgtgt agcggcactcc aacagctggc tcaacccgt cctctactgc ctgtgtggcc gtaggttccgc caaggcgtctc gtagggctctc tgggtgtgtc cgtgtctctc tggatcaca gcatggggcc cttcaccggc actaccagg ccggagcagc gtagcagggc ctggcggggcc cggcggggcc caccggggcc</p>	A	Homo sapiens

609	190705	G Protein- Coupled Receptor SALPR	NP_057652.1	P	Homo sapiens
<p>ggggagccgg acctgtctcta ctaccacct ggcgtcgtgg tclacagcgg gggggcgctac gacctgtctc ccagcagctc tgcctactga cgcaggctc agggccaggg cgcgcgcgcg gggcaaggg gcttccccc ggggttaag aggtgaagg atgaaggagg gcgggg</p> <p>MQMADAATIA TMNKAAGGDK LAELFSLVPD LLEAANTS GN ASLQLPDLWW ELGLELPDGA PPGHPGSGG AESADTEARV RILISVVYVW VICALGLAGNL LVLYLMKSMQ GWKSSINLF VTNLALTDFQ FVLTLFWAV ENALDFKWWF GKAMCKIVSM VTSNMVYASV FFLTAMSVTR YHVSASALKS HRTRGHRGD CCGRSLGDS CFSAKALCVW IWALAALASL PSAFSTTVK VMGEELCLVR FPDKLLGRDR QFWLGLYHSQ KVLGFLVPL GHILCYLLL VRFIADRRRA GTKGGAAVAG GRPTGASARR LSKVTKSVTI VVLSFFLCWL PNQALTWTSI LIKFNAPFS QEYFLCQVYA FVSVCLAH NSCLNPVLYC LVRREFRKAL KSLWRIASP SITSMRPFTA TTKPEHEDQG LQAPAPPHAA AEPDLLYYPP GVVYSGGRY DLLPSSAY</p>					
610	190711	G Protein- Coupled Receptor GPR85 (SREB2)	NM_018970	A	Homo sapiens
<p>ggcagaggga ttactgt gtcacagat cagattatta ctgttagaga gaattitai ttltitica ttaacagat atataaagc aaaaagcatg cagaaagaaga agcagagcti ttacattggg aattaaaga agcggtgtctg ctgttttgg gtagggagaac tggggaagtig ttgtlaaaa ttatataa cttacaaa caaaactct cggaaatgg aaataaaga aatgcalgat tclagaggca ttctlaagca cccagctgic aggttttgg ggtctgtgg lalcalocga ccgtttgggac tggtagggc ttactgaag ctccattct ggaaagocit acaagactga ggaatatac agtcggaac accggggaacg gttccttgg agcacagaag caatctct cccaltic gcalattcig atggcaaac aagtggaaga aagaaggagag calgactgca gatcagatca gttcttgg tggattat ttacaglaaa atgtatggat ctatcttct ctgtctta tatagatc atgagactg actgaggctg tatcttalc ctccatccat ctatggcgaa ctatagccat gcagctgaca acatttggc ccttaacag ctttctgaa actgacttcc ttgggttca taalaggagt cagcgtgtgtg ggcaactcc tgaictocat ttgtctagtg aaagataaga octtgcagag agcaccttac tacttccgt tggaltcttg cgttcaagat atccicagat ctgcaattg ttcccat ttgttcaact ctgcaaaa tggcttcaac tggacttalg ggaactgac ttgcaaatg atggcttcc tgggggtttt gttcctgttt cacactgtt tcatgtctt ctgcalcagt gtcaccagat actagctat cgcacatcac cgtcttata caaagaaggct gaactttgg agtgtcttgg ctgtgtctg tatgtgttgg actgtctg tggccatggc atttcccc gtttagacg tgggacatla ctactcat agggagggag atcaatgac ctccaacac cgtcttca gggctaaatga ttcttagga ttatgtctg ttctgtct ctacttola gccacacagc ttgttacct caagtctgata tttttctcc acgaltgaag aaaaatgaag ccagtccagt ttgttagcagc agtcagccag aacttggacti ttcatgtcc tggagccagt gggccaggcag ctgccaatg gctagcaggga ttgggaaggg gttccacacc accacttg ctgggcalca ggcaaatg aaacacaca ggcagaagaa ggtctattgt cttagacgag ttcaaatg agaaagaaat cagcagaag ttctataaa tgaatttct gtttctaac ttgtggggcc cttacctgtt ggcctgtat tggagaggti ttgcaaggg gctgtgtaga ccaagggggat tttaacagc tgcctgtctg atgagtttg cccaagcag aaataact ttgtctgca ttcttcaaa caggggagctg aggcgtgt tcaagcaac ccttcttac tgcagaaaal ccaagttacc aagggaacct tactgtgtta tatggaggag calctgaaa tcttagct tggaaaact aacttctct gctgaagcaat tggggccat agccatatt tgaagaagaa ttcaagaaag gaalcaagcag tttaaggat ttgggcaaca ttctgacagc ttgcaalag ttacccala atccatatt aaalctcaga gttatccctg tgaactggcag caaagggttg taatagaaa ggggactgaac cactgtctta tgggttcaaa aactagataa tgaagtagc aggtgtcag tatcagct aaatgtctg tatgtacta catatgaaa aacatcaaaa aacatagc attggacatc ttaalaat aagtgtacat gaggtaaatg tggtaaaa aactaat ttgaaggttga agactttaaa acatttala ctacttgt ttggcaaga claaaat ttggggacta aggtactgta atccacaaa gacgtgtcca tgaattatg gaaatcacaa cttaaaaac cgcttgttaa gttctgggga gcaatccaaa gcatgtattt ggttccaat aggtttact tttttgat taatatac ctatttctaa</p>					

611	190711	G Protein- Coupled Receptor GPR85 (SREB2)	NP_061843.1	<p>alaccactt cctcatctac tagtaagatt gctagcattg aactglaata tgggtttt gttgatttgg tataaagtti ttccaaltca ttatattt acaaalgcta galattgctc tgggaaggcaaa catlaalgtt accagctgtg cacaactgtg cagttctaataa aalgcaagaat aaatacatgt tgccttaag aggtatctag tatcttcaat ctatttagc actggagacaa atagccaaagg gaatacaaat cagtaactgg tcatgtgat gcatlaaaa gtcagaggaa gatacttiat tacttttcc ttittttic acatgttg aaactlaaag tgcacalcac tgaataalg agattttct ctacgggtg ctaccttc taactgtc taagaagcag gcaattgatg tctactgaag gcaacactt gttatactt gctgcaagg ggaagaccaca gocttagat gacatctgc acaattgtg aagcttiat tctactgaag gcaacactt gttatactt tcgcacatt cagtgatg gtaattaaa tatctcatt ttaactgt gaaagcttat atattgat cttgatttt ggaatacac tagagctgt gagtcatt cttaagata cagatgtg aactcaata taaagtga ttgccaaa ttacccgtg tagccgttta atttttga aataagttt acatttgg cacatacaa cgtttttt aatttgggag gcaagcacaa actagggaaga ctatcttiat tatgttttg cttttgatt ctgttagcta claatoca gactggaaat gtaagaaga taatacaat aalgctgata aactgacata atatatctg taagaacatt atttggatg ttattataat catctctta ttattctaa atgcccagtag tattagaaga tgtgtacctg ctagttaat tggcagaga tttaataa aacatcacac tttaattgg agcatagtag catagaaat tggggttcta aatatacaac ttgaagaag aalggtttac actaacatta tgcacaaact agzaaaagt attatttgg ttgtcttct gttgtttgt ttattgttg gttttggga agttattt ttnttggta ttgataatt aagattaga atcaataac acagaattcc atattgctat agtactctg taagaagaat atcaataaa ataggaataa taalcaatg aatgttca atgttataa aaaaaaaa aaaa MANYSHAADN ILQNLSP.LTA FLKLTSLGFI IGVSVVGNNLL ISILLVKDKT LHRAPYYFLN DLCCSDILRS AICFPFVNS VKNGSTWYTG TLTCKVIAFL GVLSCFHTAF MLFCISVTRY LAIAHRRFYT KRLTFWTCLA VICMVWTLVS AMAFPPVLDV GTYSFIREED QCTFQHRFR ANDSLGFMLL LALLLATQL VYLKLIFFVH DRRKMKPVQF VAAVSQNWTF HGPASGQAA ANWLAGFGRG PTPPTLLGIR QNANTTGRRR LLVLDEFKME KRISRMFYIM TFLFLTLWGP YLVACYWRVF ARGPVVPGGF LTAAVVMMSFA QAGINPFVCI FSNRELRRCF STLLYCRKS RLPREPVCVI</p>	P	Homo sapiens
612	190725	G Protein- Coupled Receptor GPR26	LG93120	<p>aggctagtg agctcttc cactgtgccc atgggtccc actgggggt gctgtccaag tgcitggcgt acagcaaggc cgcatccgac cccitttgt actcttact ggcacaccag taocgcaaaa gctgcaagg gattctgaac aggtctctgc acagcgtc calcatctc tctggctca tggcctca caggcgtc tcaagccag aacattctg cgggtctga g MNSWDAGLAG LLVGTMGVSL LSNALVLLCL LHSADIRRA PALFTLNLTC GNLLCTVWNM PLTLAGVVAR RQAGDRLCR LAFLDTFLA ANSMLSMAAL SIDRWVAVVF PLSYRAKMRD RDAAALMVAYT WLHALTFPA ALALSWLGFH QLYASCTLCS RRPDERLRFA VFTGAFHALS FLSSFVVLCC TYLKVARFHC KRIDVITMQT LVLVLDLHPS VRERCLEEQK RRRQRATKKI STFIGTFLVC FAPYVITRLV ELFTVPIGS HWGLSKCLA YSKAASDPFV YSLLRHQYRK SCKEILNRLL HRRSHSSGL TGDSSQNIL PVSE</p>	A	Homo sapiens
613	190725	G Protein- Coupled Receptor GPR26	LR26	<p>atggccaaca ctacggaga goctgagag gtagcggcg cttgtccc accgtccga tcaactatg tgaagcttgt actgtggga ctgattatgt gctgtgacct ggcggggaac gccatctgt cctgtctgt gctcaaggag cgtgccctgc acaaggctcc ttactctc ctgtggacc tgtgtctg ccagtgcata cgtctgcgc tctgtccc cttgtctg gcttctgtgc ggcaggctc ttactggacc ttactgtcac tcaactgcaa gattgtggcc ttatgttgg tctcttttg ttccatggc gocttcaigc tgttctgat cagcgtcac cgtctacatgg ccacggocca oacogcttc taocgaagc gcalgacat ctggacatgc ggggctgtca tctgcatggc ctggaccctg tctgtggcca tggccttccc accgtctt gacgtgggca cctacaagt tattggggag gaggaccagt gcatctuga gcatcgtac ttcaaggcca atgacacgt gggcttcaig ctatgttgg ctgtgtcat</p>	P	Homo sapiens
614	190741	Sreb3	NM_018969		A	Homo sapiens

615	190741	Strb3	NP_061842.1	P	Homo sapiens	<p>ggcagctacc catgctgctt acggcaagct gctctcttc gaggatagtc accgcaagat ggaagccagtg cagatggctc cagocaltcag ccagaacitgg acaltccatg gtcocggggc caccggccag gctcgtgcca actggatcgc cggcttggc cggggggcca tggcccaac cctgctgggt atccggcaga atggggcagc agccagccgg cggctactgg gcatggcagc ggctcaagggt gaaaagcagc tggggcgcat gttacggc atcacatgc tcttctgct cctcgttg cctacatc tggcctgcta cggcgagtg ttgtgaaag cctgctgctt gcccacgc taccggcca cgtcgtttg gatgagctc ggccaggctg ccgtcaacc aatgtctgc ttctgctca acaaggacct caagaagtgc ctgaggatc acgccccg cggggggcca ggaggggcc cggctccag agaacctac tggctcgtt ga MANNTTGEPEE VSGALPPSA SAYVKLVLLG LMCVSLAGN AILSLVLKE RALHKAPYYF LLDLCLADGI RSAVCFPFVL ASVRHGSSWT FSALSKIVA FMAVLFCFHA AFMLFCISVT RYMAIAHHRF YAKRMTLWTC AAVICMAWTL SVAMAFPPVF DVGTYKFIRE EDQCFEHRF FKANDTLGFM LMLAVLMAAT HAVYGKLLLF EYRHRKMKPV QMVPASQNW TFHGPATGQ AAANWTAGFG RGPMPPTLLG IRQNGHAAASR RLLGMDEVKG EKQLGRMFYA ITLLFLLLWS PYIVACYWRV FVKACAVPHR YLATAVVMSF AQAAVNPIVC FLNLKDLKKK LRTHAPCWGT GGAPAPREPY CVM</p>
616	190742	G Protein-Coupled Receptor H7TBA62	E32367	A	Unidentified	<p>ggagctctgc caccagctag agcaggaaag gggggaaagg cggcgataga ggttagcagg aatgttaat lalcaggagc aggaacagaa ctagaggcat gcccaggtcc acacaggccc tcataggccc agtgttcca gtagggagga aacaggagc tggacttcc tctctttt cctctctgc tctagctc aggtcactg cgtcgtgagt gaaatccaac cgtttttag tggcactggt ccctggggcat gggaatagcc tctcagacc cttcggccac aaacaccca aactctct tggaaataa attacataa attgctatt cacatgtatt cttcattgc atcagtcacc tctgtgaa gtagactaac tgaataatt aagcaagaaa acagggcttag gggaggaag taacttccc agtcacacgg clagtgaagc gcagggtctgg gactccgag cctccgctct tctctctt gggaacccat gctgaatccc tgcctatg ccacttcca ggccccctgg ttggggccc aaggggaaac ttgttcaga ggaggggagc cttcgtcagc ttaggaaacag aggcagctct agtttggctc cgtcactc tgggacagggg aaactccag ctctctccc gggtggagg cttggggctg ccttccatag cggggtaact cttctctc ccttctct cgtcattta gaggccctct laccaggccgg cgtcagcaca lalaccctgg caticaggt gttcctcggc cggccccc laccaccaat cttgaacca aggaagggtgg tgggtgttcc ttccacac cctcctcgg aggtgtggggc gtagggcagg gctcaccaga ggccccagg aagcactaa ttccacagcc tcttccatag agcctcagt ggccctcggc agctcggcag acactcgcag acctcttc tcagccacac caatcttga tggcctggca tggccacact caatctct gctctccac ccacttct cggggccaat gctcggagg ggcagtgtgt gtagtctggt gtagctccga tggcctlcaa altccagcc ctagggctca tgggtgtccct ggctatggg cttggggggg ccattggctt gctgggaaat ttggcgggtg tgggtgtgt gtagtactt gcccggagga cccctgggccc acctcagac acctgtct tcaacctggc tctgggggac ctagggactgg cactactct cccctttgg gcaagccgagt cgggactggg cttcactgg ccttcgggag gttccctcgg caagatgggt ctagcggcca cttgctccta cgtctatggc agcacttcc lalcacagc gctggagctt gctcgtact ggggtgtgtg ctagggcggc caggcggcggc cccacctc actcttgg gcccgaalag ccaacctggc agtggggggc gtagggcggc tgggtgtgtt gggccaggga cctcggggg tggagggtgta ggtgtgtgt gttcggcctt gctcgtcgg ttccccagc aggtactggc tggggggccta ccagctggcag agggtgtgtg tgggtttcat ggtgtgtgtt ggtggcctca ccaacagcta cctcgtcgt cgggtctcc tgcagggggc gcaacggggc cggcagggaca gcaagggtctt ggccccctt gttccgctcc tgggtgtgtt cttctctc tgggtttc ccaacaggt ggtcactc tgggggtgtt tgggtgaagt tgggtgtgtt ccttgggaca gtaacttcta tactatccag acctatgtct tccctgtcac tactgtctt gcaacagca ataggtctt ccaacctgtt cttactgtt cttactgtt cttactgtt cttactgtt cagggtcttgg caggggcactt caggggactt cgggtggggc tgggtggggc tgggtggggc tgggtggggc tgggtggggc</p>

617	190742	G Protein-Coupled Receptor H7TBA62	ENSP00000201 359	MPTLNTSASP PTFFWANASG GSVLASDDAD MPVKFLALRL MVALAYGLVG AIGLLGNLAV LWVLSNCARR APGPSDDTFV FNALADLGL ALTLPFWAAE SALDFHWPFQ GALCKMVLTA TVLNYYASIF LITALSARY WVYVMAAAGPG THLSLFWARI ATLA VWAAAA LVTPTAVFG VEGEVCGVRL CLLRFPSSRYW LGAYQLQORVV LAFMVPLGVI TTSYLLLLAF LQRRRRRQD SRVVARSVRI LVASFLLCWF PNHVVTLWGV LVKFDLVPWN STFYTIQTYV FPVTTCLAHS NSCLNPVLYC LLRREPRQAL AGTFRDLRLR LWPQGGGWVQ QVALKQ	Homosapiens
618	190743	G Protein-Coupled Receptor GPRC5D	NM_018654	atgtataagg actgcatgca gtccacttga gaacttttct tctcttga cgcggagagg ccaaggggca tcaacttga gtctctggcc atacttggca tctgtgtcac aattcttctc tcttagcat tcttctct cctggagctc cttggagctc aactggcccc gtacgtacti ttcttttgg agttctctt gtctctgt ttctatgt ttctatgt gcttccatc agtttgaagct agttcggggg tgtgtctct tctcttggac gacaattctg tgcattgcta ttggttggag tctgttggca atcattattg cctatgagta tgtgtacttc atcatgacca gagggtatgt gtttgttgaat atgacacctt gccagctcaa tgtgtgacttt gttgtacttc tggcttactt cctcttctg atggcttca catcttctt cttcaaggcc accittctgt gcccgttga gaaacttggag cagctatgaa agttctatct tatcacttga ctcttctca tcatcatctg agttgtgttg atcttcatgt tcttgaaggg caaocctggag ttccagcgag agtcccagtg agaacgacccg gtctcttga ttgtcttggg taccacggca tgggttttcc tgccttctga catgtccct gaggcttga atcttctga catgttggagctc caggagccga gtacgttga tg aggtatgaa ttacttcat atgttacttc catcagccg cagactgttg atccacaca agagtgtttc atccacaggg cttaactaag cccacagcan	Homosapiens

619	190743	G Protein- Coupled Receptor GPCR5D	NP_061124.1	gatcaggag gaggataaa MYKDCIESTG DYFLCLDAEG PWGIILESIA ILGIVVTILL LLAFLEMRK IQDCSQWNVL PTQLFLLSV LGLFLGLAF IELNQQTAP VRYFLFGVLF ALCFSCLLAH ASNLVKLVRG CVSFSWTTL CIAIGCSLLQ IIAITEYVTL IMTRGMMFVN MTPCQLNVDF VLLVYVFLF MALTFFVSKA TFCGPCENWK QHGRLLFITV LFSIIIWVWV ISMLLRGNPQ FQRPQWDDP VVCIALVTNA WVFLLYTVP ELCILYRSCR QECPLQGNAC PVTAYQHSFQ VENQELSRAR DSDGAEEDVA LTSYGTPIQP QTVDPTQECF IPQAKLSPQQ DAGGV cgggcaggig ggggaacctcc cgaagagig ccttggtcac agcacccttg aagacagcca tiggccatgg ggaaccaacc agagcctggc cgggagcca ggaaggccat ccaaaagcc ttggtgagt gccctgggact gccctcttc cgttccacg gggcttgggc cgaaggccat gtoaacccg gcgcagacca aggcctcaac cccctgact acaacatgg tgaocgtct ggggcgtggg gcalcgtct ggaaggccgig gcctggggcgg gcatgtcac cagtttgg ctacacalca tctgtgtggc cagctccc ttgtgcagg acacaagaa agggagcctg ctggggacc accgtatctt cctctgggg accctggggc tctctgct cgtgttggc ttgtgtgga agcccgact ctccactgt gctctggc gctctctt tgggggtcig ttgccaict gcttcttg tctggcggct cagctttg cctcaact cctggccc agaaacacg ggcocgggg cttgggtgac ttacatgg cttgtcgt gaccttgga gaggcalca tcaatacga gttgtgac atcaccctgg ttggggcag tggcgaggc ggcctcagg gcaacagcag cgcaggcgtg ggcgtggcct cccctggc cgtcgccaac atggacttg tcaaggcact cactacgt atgtcgtgc tgcctgggtc cttctgggg gctctggccg cctgtgtgg ccgclacaag cgtggcga agcatgggt cttgtgtc ctcaacacg ccaactcgt tgcataatgg gttgtgtgga tegtcalgta tactacgc aacaagcagc acaacagctc cacttgagat gaccocacgc tggccalcgc cctggccc aatgctggg ccttctct ctctacgc atcccgagg tctccagg gaccaagtc agccagagc aagctacca ggggggacag taccaccc ggggggtgg clatgagac atctgaaag agcagaagg tcaagagcag tctgtggaaga acaaggcct ttccatggat gggcgggtg cagtaagag ggcgtgtga ccaacagcgg ggtacaatgg gcaactgtcgt accatgtgt accagccac tgaatggcc ctagatcaca aagttccgtc gaaagggtc tacaacalca tctccacg ggcacccgc aacaagcagg tgaaggcag tgcacactg accctgggg ctagagacat gtactggcc cagaagccac aggcggccac accgcgaaa gacggcaaga actcaggt cttagaac ccttactgt gggactagat cagcgggtggc gaggagagc ggcggaatt ggggagggcc ctgagacct ggcocgggc aaggactct caggtcct cctccctc gcaaggcagc aacatggcc ccagatcgg aaggcctc cttctgcca gttttgggt ggggtcag ggtgtccca cccactc agtgtgtg ggtcagga gcaaccca gctctgccc aggalcact cggcggtcac actccagcca aatagttc tcgggggt ggtcggcag cgctatgt tctgtgga ttctgcaac ctcaagaac ttccaggc ctagggcgt ctagggcgt gactgtc cttgtgag acaagggt cetaataa acatttgc ttataaaa aaaaaaaa aaaa MGTPPEPLG ARMAIHKALV MCLGLPLF PGAWAQGHVP PGCSQGLNPL YNNLCDSGA WGIVLEAVAG AGVITFVL TILVASLPFV QDTKKRSLG TQVFFLLGTL GLFCLVFACV VKPDFSTCAS RRFLGVLFA ICFSLAAHV FALNFLARKN HGRGWVIFT VALLTL VEV INTEWLIIT LVRSGEGGP QGNSSAGWAV ASPCAVANMD FVMALYVML LLLGAFLGAW PALCGRYKRW RKHGVEVLLT TATSVAIWV WIVMYTYGNK QHNSPTWDDP TLAIALAANA WAFVLFYVP EVSQVTKSSP EQSYQGDMYP TRGVGYETIL KEQKGQSMFV ENKAFSMDPE VAAKRPVSPY SGYNGQLLTS VYQPTMALM HKVPSEGAYD IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VVD	P	Homo sapiens
620	190744	G Protein- Coupled Receptor GPCR5C	NM_018653	gcttcttg tctggcggct cagctttg cctcaact cctggccc agaaacacg ggcocgggg cttgggtgac ttacatgg cttgtcgt gaccttgga gaggcalca tcaatacga gttgtgac atcaccctgg ttggggcag tggcgaggc ggcctcagg gcaacagcag cgcaggcgtg ggcgtggcct cccctggc cgtcgccaac atggacttg tcaaggcact cactacgt atgtcgtgc tgcctgggtc cttctgggg gctctggccg cctgtgtgg ccgclacaag cgtggcga agcatgggt cttgtgtc ctcaacacg ccaactcgt tgcataatgg gttgtgtgga tegtcalgta tactacgc aacaagcagc acaacagctc cacttgagat gaccocacgc tggccalcgc cctggccc aatgctggg ccttctct ctctacgc atcccgagg tctccagg gaccaagtc agccagagc aagctacca ggggggacag taccaccc ggggggtgg clatgagac atctgaaag agcagaagg tcaagagcag tctgtggaaga acaaggcct ttccatggat gggcgggtg cagtaagag ggcgtgtga ccaacagcgg ggtacaatgg gcaactgtcgt accatgtgt accagccac tgaatggcc ctagatcaca aagttccgtc gaaagggtc tacaacalca tctccacg ggcacccgc aacaagcagg tgaaggcag tgcacactg accctgggg ctagagacat gtactggcc cagaagccac aggcggccac accgcgaaa gacggcaaga actcaggt cttagaac ccttactgt gggactagat cagcgggtggc gaggagagc ggcggaatt ggggagggcc ctgagacct ggcocgggc aaggactct caggtcct cctccctc gcaaggcagc aacatggcc ccagatcgg aaggcctc cttctgcca gttttgggt ggggtcag ggtgtccca cccactc agtgtgtg ggtcagga gcaaccca gctctgccc aggalcact cggcggtcac actccagcca aatagttc tcgggggt ggtcggcag cgctatgt tctgtgga ttctgcaac ctcaagaac ttccaggc ctagggcgt ctagggcgt gactgtc cttgtgag acaagggt cetaataa acatttgc ttataaaa aaaaaaaa aaaa MGTPPEPLG ARMAIHKALV MCLGLPLF PGAWAQGHVP PGCSQGLNPL YNNLCDSGA WGIVLEAVAG AGVITFVL TILVASLPFV QDTKKRSLG TQVFFLLGTL GLFCLVFACV VKPDFSTCAS RRFLGVLFA ICFSLAAHV FALNFLARKN HGRGWVIFT VALLTL VEV INTEWLIIT LVRSGEGGP QGNSSAGWAV ASPCAVANMD FVMALYVML LLLGAFLGAW PALCGRYKRW RKHGVEVLLT TATSVAIWV WIVMYTYGNK QHNSPTWDDP TLAIALAANA WAFVLFYVP EVSQVTKSSP EQSYQGDMYP TRGVGYETIL KEQKGQSMFV ENKAFSMDPE VAAKRPVSPY SGYNGQLLTS VYQPTMALM HKVPSEGAYD IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VVD	A	Homo sapiens
621	190744	G Protein- Coupled Receptor GPCR5C	NP_061123.2	gcttcttg tctggcggct cagctttg cctcaact cctggccc agaaacacg ggcocgggg cttgggtgac ttacatgg cttgtcgt gaccttgga gaggcalca tcaatacga gttgtgac atcaccctgg ttggggcag tggcgaggc ggcctcagg gcaacagcag cgcaggcgtg ggcgtggcct cccctggc cgtcgccaac atggacttg tcaaggcact cactacgt atgtcgtgc tgcctgggtc cttctgggg gctctggccg cctgtgtgg ccgclacaag cgtggcga agcatgggt cttgtgtc ctcaacacg ccaactcgt tgcataatgg gttgtgtgga tegtcalgta tactacgc aacaagcagc acaacagctc cacttgagat gaccocacgc tggccalcgc cctggccc aatgctggg ccttctct ctctacgc atcccgagg tctccagg gaccaagtc agccagagc aagctacca ggggggacag taccaccc ggggggtgg clatgagac atctgaaag agcagaagg tcaagagcag tctgtggaaga acaaggcct ttccatggat gggcgggtg cagtaagag ggcgtgtga ccaacagcgg ggtacaatgg gcaactgtcgt accatgtgt accagccac tgaatggcc ctagatcaca aagttccgtc gaaagggtc tacaacalca tctccacg ggcacccgc aacaagcagg tgaaggcag tgcacactg accctgggg ctagagacat gtactggcc cagaagccac aggcggccac accgcgaaa gacggcaaga actcaggt cttagaac ccttactgt gggactagat cagcgggtggc gaggagagc ggcggaatt ggggagggcc ctgagacct ggcocgggc aaggactct caggtcct cctccctc gcaaggcagc aacatggcc ccagatcgg aaggcctc cttctgcca gttttgggt ggggtcag ggtgtccca cccactc agtgtgtg ggtcagga gcaaccca gctctgccc aggalcact cggcggtcac actccagcca aatagttc tcgggggt ggtcggcag cgctatgt tctgtgga ttctgcaac ctcaagaac ttccaggc ctagggcgt ctagggcgt gactgtc cttgtgag acaagggt cetaataa acatttgc ttataaaa aaaaaaaa aaaa MGTPPEPLG ARMAIHKALV MCLGLPLF PGAWAQGHVP PGCSQGLNPL YNNLCDSGA WGIVLEAVAG AGVITFVL TILVASLPFV QDTKKRSLG TQVFFLLGTL GLFCLVFACV VKPDFSTCAS RRFLGVLFA ICFSLAAHV FALNFLARKN HGRGWVIFT VALLTL VEV INTEWLIIT LVRSGEGGP QGNSSAGWAV ASPCAVANMD FVMALYVML LLLGAFLGAW PALCGRYKRW RKHGVEVLLT TATSVAIWV WIVMYTYGNK QHNSPTWDDP TLAIALAANA WAFVLFYVP EVSQVTKSSP EQSYQGDMYP TRGVGYETIL KEQKGQSMFV ENKAFSMDPE VAAKRPVSPY SGYNGQLLTS VYQPTMALM HKVPSEGAYD IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VVD	P	Homo sapiens

622	190745	G Protein-Coupled Receptor LGR7	NM_021634		<p>atgacatcgt gttctgctt ctclacalc ttaatttgg gaaatattt ttctcatggg ggaggacagg atgcgaagtg ctccttggc tattccctt gggggaacat cacaagtc ttgcctcagc tctgcactg taacgggtgtg gacgactggc ggaatcaggc cgalgaggac aactggggag acaacaalg aggtccatg caatttggca aatatttgc cagtctac aaatgactt occaatatcc tttagggca gaaacacctg aatgtttgtt cgggtctgtg ccagtgccaal gtctllggca aggtctggag ctgactgtg atgaaacca ttacgagct gtctccagg ttcttcaa tggactga atgacttc agtggaactt aataagaag ctctctctg atgcttcaa gaaattatcat gacttcaag agctgaoc tgcacaacat aagattatcat ccatctccat ctatgcttc agaggactga atagccttac taaactgtat ctacgcala acagaataac ctccigaag ccgggtgtt ttgaagattt tccagacta gaaaggctga taattgaaga taalcaccc agtcgaattt cccaccaac attttatgga taaatttct ttattctt agtccgtatg aataacgtcc tcaccgtt acctgataa cctctctgc aacacatgcc aagactatcat tggctggacc ttgaaggcaa ccatatccat aatttaagaa attgacttt tattctgc agtaattaa ctgtttatg gtaggggaaa acaaaaata atcactaaa tgaataatct ttgcacctc tccagaactt ggaagaatg gatttgggaa gtaataagat tgaatacti ccaccgctta tattcaaggga cctgaaggag cgtcacaaat tgaacttct ctataalcca atccagaanaa ttcaaggcaa ocaatttgaat talctgtca aactcaagtc tctcagocia gaaagggtatg aaatttcaa talccaaca aggaatgtta gaoccttat gaacttctt ccatatatt ttaagaaatt ccagtactgt ggggtatgcac cacatgttc cagctgtaaa ccaaacactg atgggaattc altcttagag aaltcttggc caagcaattat tcaagaagaa ttgtctggg ttgacttgc agtaacctgc ttgggaaca ttgttcat ttgcagcga acttatata ggtcttgaaga caagctgttat ggcattcaa tcaattctt ctgctggc gacttctaa tgggaataa ttattctg atcgagggt ttgacctaaa gttctgttggg gaaataa agcatgcga gctgtggag gtagtact atgtcagct ttagagatc ttggccatc tggccagga agtaacagt ttactgttaa caattctgac atgggaanaa tacatctga ttgtctatcc tttagatg gtagagcttg gaaatgcag aacaattca gttctgtatc tcaatttgaat tactgttt atagtgtt tcaatcatt gagaataag gaaatttca aaaaacta tggccaacat ggaatgtct tcccttca ttcaagaat acagaaga ttggagcca gatttttca gggcaatt ttctgttat taattggcc gcaatttca tcatgttt ttctatgga agcatgttt atagtgtca tcaagtgcc ataacagcaa ctgaataacg gaaataagtt aaaaagaga tgaacttgc caaacgttt ttctttatg tatttactga tgcattatgc tggatacca ttittttagt gaaatttct tcactgttc aggtagaat accaggtacc ataaccttt gggtagtga ttatttctg ccaatacga ggtcttga ocaattctc tatacttga ccacaagacc atttaagaa atgaltalc ggttttggia taactacaga caaagaaaa ctatggacag caaaggicag aaaaatalg ctccatcatt caatgggtg gaaatgtggc cactgcagga gatgccact gagttaatga agccggact ttacatcac cctgtgaaa tgtcactgt ttctaaica acgagacta attctatc atga</p>	A	Homo sapiens
623	190745	G Protein-Coupled Receptor LGR7	NP_067647.1		<p>MTSGSVFFYI LFGKYFSHG GGQDVKCSLG YFPCGNITKC LPQLLHCNGV DDGNGQADED NCGDNNGWSM QFDKYFASY KMTSQYPFEA ETPECLVGSV PVQCLCQGLE LDCDETNLRA VPSVSSNVTA MSLQWNLRK LPPDFCKNYH DLQKLYLQNN KITSISYAF RGLNSLTkLY LSHNRITFLK PGVFEDLHRL EWLIEDNHL SRISPTTFY G LNSLILL VLM NNVLTRL PDK PLCQHMPRLH WLDLEGNHII NLRNLTFISC SNLTVLVMRK NKINHLNENT FAPLQKLDEL DLGSKNIENL PPLIFKDLKE LSQLNSYNP IQKIQANQFD YLVKLSLSL EGIEISNIQQ RMFRPLMNLS HIYFKKFQYC GYAPHVRSCK PNTDGISSLE NLLASIIQRV FVWVVSATC FGNIFVICMR PYRSENKLY AMSIISLCCA DCLMGYLFV IGGFDLKFGR EYNKHAQLWM ESTHCQLVGS LAILSTEVSV LLLTFLTLEK YICIVYPPRC VRPGKCRIT VLIJLWITGF IVAFIPLSNK EFFKNYYGTN GVCFFLHSED TESICAQIYS VAIFLGINLA AFIIIVFSYG SMFYSVHQSA ITATEIRNQV KKEMILAKRF FFIVFTDALC WPIFVVKFL SLQVEIPGT ITSWWVIFL PINSALNPIL YTLTTRPFKE MIHFWYNYR QRKSMDSKGQ KTYAPSWIWW EMWPLQEMPP ELMKPDLFY PCMSLSISQS TRLNSYS</p>	P	Homo sapiens

624	190748	GPCR Ls190748	AX147756	A	Homo sapiens	<p>gtctgggggt ggaggagatgtt ggagacagggg tcaattgctt gaaagcaagtg ctctcatccc ccctagctctt gctgatatag ttggggctcc agatgggggga ggagaaaggc acttgaac ttcttgccc ttacgcttt agccatcaa ctctgagctg gaaatagta cgaatggaca ggaactttcc ctggggctct ctggggccaca attcttggcc gaaagaaaga ggagaaaga ggagagcacc ttctcact ctaggggccat gttgtatagagc tgcagtgcga cctctcttg ocaataggca lagatgagtg gggtgagcag ggagttggccc acgcccagaca gccacagtgta ccgttccagc actaggtataga gggtacactc ctggcagggcc acctggcaca tgcagatgat aaggaaggggg gtcagagata ggagaaagt cccaataggta acagacacag tacggaagagc ttgaagatcg ctggggatcg gttgggagatcg ataacctcca gccatggctc ctgcatttc calcttcca atcttctggc ttgtcatagg ggcaatcttg agcatgtccg agtaagaaaga gacaaagagg agcatggcttg ggaaagaaaggc aacgcagagg agggatcaga cgaatggagg gtgaalaca gcaaaagagc tgcacigccc ttgtagggca gtcigcttgga acatggggat tccgagtggg aggaagccaa tgaagtaaga cactaacac agcccggcaa tgcaggcccc ggccaggaac ccactalga tctcaagta gggaaggggc tgcgtgatgg caaggtacct gtcaaggttg atcaagatga ccgtgagagc agagggcagct gcggaggaag tgaacaaagc calccgcaagg ctgcacaggg tctctgtgt gggtccgagaa gggtcgggaga gcttggtctgt gagttaggcca gagttaggcca caccatcaa gggttcagcc acagccagat tcaagggtga gccagagagac acaccaat tcttggtat caacagcagc acagccacag ccactagtgt gtagtagga atgtaggggg agggccagggac agcaaggtatc actcaaatg agaaagatga ttcaatgt ctgaagtgga ggaattcact taccagggca tg</p> <p>MESSFSFGVI LAVLASLIA TNLVAVAVL LIHKNDGVS LCFTLNLA VA DTLIGVAISG LLDQLSSPS RPTQKTLCSL RMAFVTSSAA ASVLTVMILT FDRLAIKQP FRYLKIMSGF VAGACIAGLW LVSYLIGFLP LGIPMFQQT YKQCSFFAV FHPHFVLTLS CVGFFPAMLL FVFYCDMLK IASMSQQIR KMEHAGAMAG GYRSRPTSD FKALRTSVL IGSFALS WTP FLITGVQVA CQECHLYLVL ERYLWLLGVG NSLNPLIYA YWQKEVRLQL YHMALGVKKV LTSFLFLSA RNCGERPRE SSCHIVTISS SEFDG</p>
625	190748	GPCR Ls190748	CAC39548.1	P	Homo sapiens	<p>atggccaact ccacagggct gaaagctca gaaagtcagag gctcgttggg gttatcttg gacatgttcg tggaggtggg ggcaatcttg ggcaacggcg cgttgtctgt cgttgtgtctg cgcacggccg gacttgcttac cgtgctctac ctggcgcaac tttgtgtctg ggaacttgct gcggcgccct ccactalggc gctggggcttg ctggccggcac cgcggcccgcc gctggggccgc gtcggccctgg gccccggcc atggccggcc gctcgttcc tctccggc gctggggctg ctggccggcac cgcggcccgcc gctggggccgc ctggcactat accgctcat cgtgcaaccg ctggggccag gctcggccgg gccggctgtg ctgtgtctca ccggcgttg ggccggcgcg ggaactgttg gcggctctc ccgtctgggc ccggccggccg caaccggccc tgcctctgt cgtgtctgg tcttggctgg gggtctgggg cccttcgggc cgtctgggc cctgtggcc ttgcgtgtgc ccggccctc gctgtggc gccacggcg gcatctct ggttggcggt cgcgtccc tgaagcccc acggccggcg cgcgggtccc gactccgtc gtagccggcc ttcatctt gccggcgct cggccctggcc tgcggggggg caaggcgccc ctggccccag cgttggccgt ggccaatt gcaagcttgt ggctgtctta tggctgtcgcg tgcctggcg ccggcagcgcg ggccgggaa gccgaagcgg ctgtcacctg ggttcactac tgggtcttg cggctcac ccctctgtac gggtgtctg agcgcccg gctgtggca ctggggccgc tcttcggc tgcactgt ggaactgtgc gggtctgcac tccgcaagcc tggccccc gggaacttt gcaatgctc caagaacccc caagagggccc tgcgttaggc cttctgagg ctccaaga gacccccg ttggcaggaag ggccgaagccc cgcataacag gggtccactg agatctct ctctga</p> <p>MANSTGLNAS EVAGSLGLL AAVVEVGALL GNGALLVVVL RTPGLRDALY LAHLCVVDLL AAASIMPLGL LAAPPGLGR VRLGPAPCRA ARFLSAALLP ACTLGVAAALG LARYRLIVHP LRPGSRPPV L VLTAVWAAA GLLGALSLLG PPPAPPAPA RCSVLAGGLG PFRPLWALLA FALPALLLLG AYGGFVVAR</p>
626	190749	G Protein-Coupled Receptor GPR62	AF317653	A	Homo sapiens	
627	190749	G Protein-Coupled Receptor GPR62	AAK12638.1	P	Homo sapiens	

628	190774 Histamine H4 Receptor	NM_021624	A Homo sapiens
<p> RAALRPPRPA RGSRLRSDSL DSRLSILPPL RPRLPGGKAA LAPALAVGQF AACWLPYGC A LAPAARAAE AEAATVWVAY SAFAAHPFLY GLLQRPVRLA LGRLSRRALP GPVRACTPQA WHPRALLQCL QRPPEGPAVG PSEAPEQTPE LAGGRSPAYQ GPPESSLS ggaagactac acaatttagg tatgagata gaaacatac ttgcagaat tgcitggctg gataattg claatitgac ctcttcac atttgatg atgcagata claatagcac aataaatta ttaataagca ctogitnac tttagcttt ttatgctt tagtagctt tgctaatg claggaaag ctitggctat tttagcttt ggggggagca aaaaacttag acatagaagt agttattt ttctaact ggccalcctt gactcttg tgggggagct cctacact ttgtacatc ctacacgctt gttgaaatg gattttgggaa agtgaactg tgattttgg gactactg actatctt atgtacaga tctgtalata acatttctt catcagctat gatacgatacc tgcagctc aaatgcitg tctatagaa ctacacatc tgggggcttg aagattgta ctctgagttt ggcgggttg gtcitggctt tcttagttaa tgggocaaag attcagttt cagaacttg gaaagatgaa ggtatgtaaa gttgaaacttg attttttg gaaaggtaaa tcttgccat cacalcac ttggaaatg tgaatccagt catctagtc gctaatca acalgaaat ttatggagc ctggggagagc gttgactat cagtaggtgc caaagccalc ctggagctgac tgcitctct tccaacatct gttgacacac attcagagagt agactatct caagagagatc tcttctgca tggagagag ttctgctac ctcttcac gagaagacaga ggaagaaagag tagtctcatg ttctctcaa gaaocaaagt gaaagagcaat acaattgctt ocaaaatggg ttctcttcc caatcagctt ctgagctct tcaocaaag gaaacatg aacgtctag agocagagagaa ttggocaaagt cactggccat tcttaggg gttttctg ttgctgggct tccattct ctgttcaaa ttgtctctt attttatc tgaagaaag gttctaaac agtttggtat agaaatgcat ttggcttca gttgttcaat tcttctgta atctcttt gttatcattg tgcacaaag gtttcaaaa ggtttcttg aaaaattt gtaaaaaa gcaaaccttca ccatcacaac acagctggc agtatctt taagacaaat ttctacct ctgaaattt tagtcaat ctacacaa ttgaatcaggt ctggocctta tcttggcct ttacttctac caacagatct gcaattgaa gtaagtgta aattactcca gttgaaataa gcaagataat algactgat aaatattg taacttgta gtaataag tactatct tcttagtcc tcaactct ctgtctt agatctaat tcaatgctg ttacaaaat ccaatttt ttcttctca ttttccatg alaaatagct cttaagttt ttctcttt ttattttat cgttaagaa acttaccag ttgaaatc attocctaaa gaaagcaata ggaagaaagaa cctctggct ggaagctggcc aactctgtc tgaatcagtt gttgggtgag ttgggtttgaa gttggcaaga gcaaggggaaac ggtcagttgccc caggttgagct cctgtgtg tccaagattt alattctaa tccagtaag gaaagaaagc tgaatgagagag tagtctgagct gttgagagag caggttgagct aggtctcag tgaatttt ttggagggccc tgggtgtgac aggtatcagaa gttgagagagat aggtcagttgt caaatggt tgaagttat gttgtccca ttctcttg ttctcttt ctgacttca catcagctc ctgtttgag aacatagaa agaaagagagc taagagagag tgaagagact gcaatgtaa actagataga cctgggtatc agtctcagaa ctatgtatg tcaataata ttattttaa aaattttat ttgtggccc ggtcagttgctg ctacggctg aaatccagc acttgggag gccaaggtg gctggatcag aggtcagagat atcagagaa tccgtggcaaa calgtgtgaaa cccactgt actaaatc aaacagttat ctgtgtgag cggcggcag ctgtatgccc agctactgag gaggctgagag caggggagat gttgagaccc gggaggggagaa gtttggcag cctggcaaca gaaagagact ctgttcaaaa agaaaaaaaa attttttt ttgggtcagac atctctct gttcccaag ctgggagctga gtaatgcaat calagctcac tgcagcttg aactcttg ctcaagcaat cctgtgccc ttggcttcca agtatgtgag actacagga ctgcccaca cactgtgata ataaaaat ttttttga gaaatgagat ctacatgtt tggcagggct ggtgtgtcaat aaattttt taaaaaaat tttaaaag gtttttga acagatctt gttgtgac caggtctgaa gttgagagagc atgactagag atcactgcaa cctctgccc ctgggttcaa gctgagcttg tggctaaag accgtgagag ctgggtgagc aggtgagagc caacatgctt ggttaattt gttatgta gttgagagaa gttttgcca ttgttgcca gttgtgag gttttttt ttattttat aagacagaggt attgctgtt tggccagat gttctcaac tccgtgagc aaacatct cccgtctg cctccaaag tgcitggagat atagggacaa gaaacacaa taattatg ctgagttga atattatg taataatg ttgattatc taatgtct taatgcttt gccaatatt ttacattt actgctcaga gttatctt taatgtgag ttgagatag ttatcttg ctgagagatc </p>			

629	190774	Histamine H4 Receptor	NP_067637.2	<p>acattttatt agtttgggtta tgtttgtcc ttthaaaca ttittttttg agatgggggt cttgtcttgt tgcctaccga ggaatgacagt ggcatgctct cagctcacgt cagccctgac tgcctaggct ccagcaatct tcttaagca gctccagag tagctgggac cgaggcaact tgcctaccag cccactaaa aatttttaa atttgtgct ttctgaagt gtctctgct tctttttg acaaatlc atttttca tagttaatt catctccg gtaagattt atttgggtt cttaatac ttgacgttc ttacaccgt ttggatatt calgtttct agaaactta aactttaac ttcaacatt aaaaataag tcttttaagt acatgagtc tagaaatgt acaataatgt tatataact tatgctttac attaaagt aataatgaga alacatgtt aacattcaat aataattta aaaaattgag aataaaact tcaataatgc aaaaaaaaa aaaaaaaa</p> <p>MPDTNSTINL SLSTRVTLAF FMSLVAFAM LGNALVILAF VVDKNLRHRS P Homo sapiens</p> <p>SYFFLNLAIS DFFVGVISIP LYPHITLFEW DFGKEICVFW LTTDYLLCTA SVYNIVLISY</p> <p>DRYLSVSNVAV SYRTQHTGVL KIVTLMAVW VLAFLVNGPM ILVSESWKDE</p> <p>GSECEPGFFS EWWYLAITSF LEFVIPVL V AYFNMYIWS LWKRDHLSRC</p> <p>QSHPGLTAVS SNICGHSFRG RLSSRRSLA STEVPASFS ERQRRKSSLM</p> <p>FSSRTKMNSN TIASKMGFS QSDSVALHOR EHVELLRARR LAKSLAILLG</p> <p>VFAVCWAPYS LFTIVLSFYS SATGPKSVWY RIAFWLQWFN SFVNPLLYPL</p> <p>CHKRFQKAFI KIFCKKQPL PSQHSRSVSS</p> <p>cccagacta gaactaccca gagcaagacc acagctgggt aacagtccag gagcagacaa gatggagaca aattctctc A Homo sapiens</p> <p>tcccacagaa catctctgga gggacacctg ctgtatctgc tggctatctc ttctgggata tcaactta tctgtattt gcagctacct</p> <p>ttgtctctgg ggtcttgggc aacgggcttg tgaictgggt ggcctggatt ccggaatgac acacagtac caccatcagt</p> <p>tactgaacc tggccgtggc tgaacttgt ttacctoca ctggccatt ctatgctt aggaaggcca tgggaggaca ttggcccttc</p> <p>ggctgggttc tgtgcaaat cgtctttacc atagtgagca tcaacttgt cggaggtgc ttcttgatgc cctcatgic tctggaccgc</p> <p>tgtgtgtgc tctgtatcc agtctggacc cagaaccaac gcaccgtgag cctggccaaag aaggtgacatc ttgggcoctg</p> <p>ggatgagct ctgtctctca catgccaagt tatcaatgt gtaactacag taactgggaa aagggggaca gtagccigca cttaaat</p> <p>ttggccctgg accaagacc ctaaaatgag talaaatgt gccgttgcca tgttgacgtt gaaaggcaic atccgggtica</p> <p>tcaatggctt cagcgaccc atgtccatcg ttgtgtcag ttatgggtt atggccatc atgocacca gcaaggcttg attaatgcca</p> <p>gtcgtccctt acgggtcttc tctgtgtc cagcagcctt ttctctgc tgggtcccat atcaggtggt ggccttata gccacagca</p> <p>gaatccgtga gtaatgcaa ggcaatgaa aagaatgg latgacagt latgacaa gggccctggc ctcttcaac</p> <p>agctgctca acccatgt ctatgctc atggccagg acttccggga gaggctgac cagcccttc ccgcccgtct</p> <p>ggagaggggc ctgaccagg actcaacca aacagtgac acagtlacca atttactt accctgca gagggtgagt</p> <p>tacaggcaaa gtaggaggag agctggggga cacttccag ctccagctc cagcttctc tcaactgag ttaggctgag</p> <p>cacaggcat tctgttat ttaggatta cccactcatc agaaaaaa aaaaagcct ttgtgtccc tgattgggg agataaaca</p> <p>galataggtt</p> <p>METNSSLPIN ISGTPAVSA GYLFLDIITY LVFAVTVLG VLGNGLVWV P</p> <p>AGFRMTHVT TISYLNLA VA DFCFTSTLPF FMVRKAMGGH WPFGWFLCKF</p> <p>VFTIVDINLF GSVFLIALIA LDRCVCVLHP VWTQNHRTVS LAKKVIIGPW</p> <p>VMALLTLPV IIRVTVPGK TGTVACTNF SPWTNDPKER INVAVAMLT</p> <p>RGIIRFIIGF SAPMSIVAS YGLIA TKHK QGLKSSRL RVSFVA AAF FLCWSPYQV</p> <p>ALIA TVRIR E LLOQMYKEIG IAVDVT SALA FNSCLNPM YVFMGQDFRE</p> <p>RLIHALPASL ERALTEDSTQ TSDTATNSTL PSAEVELQAK</p> <p>alggaacaa actctccat tctctgaat gaactgagg aggtgtctcc tgactgtctt ggcacacag ttcttgat ctctatg A Homo sapiens</p> <p>clagtccag gagtcaact tctctcgg gtcttggga atgggttgtt gacttgggtt gcttgggtt gcttgggtt</p>
630	190823	Formyl Peptide Receptor 1 (FPR1)	NM_002029	<p>cccagacta gaactaccca gagcaagacc acagctgggt aacagtccag gagcagacaa gatggagaca aattctctc A Homo sapiens</p> <p>tcccacagaa catctctgga gggacacctg ctgtatctgc tggctatctc ttctgggata tcaactta tctgtattt gcagctacct</p> <p>ttgtctctgg ggtcttgggc aacgggcttg tgaictgggt ggcctggatt ccggaatgac acacagtac caccatcagt</p> <p>tactgaacc tggccgtggc tgaacttgt ttacctoca ctggccatt ctatgctt aggaaggcca tgggaggaca ttggcccttc</p> <p>ggctgggttc tgtgcaaat cgtctttacc atagtgagca tcaacttgt cggaggtgc ttcttgatgc cctcatgic tctggaccgc</p> <p>tgtgtgtgc tctgtatcc agtctggacc cagaaccaac gcaccgtgag cctggccaaag aaggtgacatc ttgggcoctg</p> <p>ggatgagct ctgtctctca catgccaagt tatcaatgt gtaactacag taactgggaa aagggggaca gtagccigca cttaaat</p> <p>ttggccctgg accaagacc ctaaaatgag talaaatgt gccgttgcca tgttgacgtt gaaaggcaic atccgggtica</p> <p>tcaatggctt cagcgaccc atgtccatcg ttgtgtcag ttatgggtt atggccatc atgocacca gcaaggcttg attaatgcca</p> <p>gtcgtccctt acgggtcttc tctgtgtc cagcagcctt ttctctgc tgggtcccat atcaggtggt ggccttata gccacagca</p> <p>gaatccgtga gtaatgcaa ggcaatgaa aagaatgg latgacagt latgacaa gggccctggc ctcttcaac</p> <p>agctgctca acccatgt ctatgctc atggccagg acttccggga gaggctgac cagcccttc ccgcccgtct</p> <p>ggagaggggc ctgaccagg actcaacca aacagtgac acagtlacca atttactt accctgca gagggtgagt</p> <p>tacaggcaaa gtaggaggag agctggggga cacttccag ctccagctc cagcttctc tcaactgag ttaggctgag</p> <p>cacaggcat tctgttat ttaggatta cccactcatc agaaaaaa aaaaagcct ttgtgtccc tgattgggg agataaaca</p> <p>galataggtt</p> <p>METNSSLPIN ISGTPAVSA GYLFLDIITY LVFAVTVLG VLGNGLVWV P</p> <p>AGFRMTHVT TISYLNLA VA DFCFTSTLPF FMVRKAMGGH WPFGWFLCKF</p> <p>VFTIVDINLF GSVFLIALIA LDRCVCVLHP VWTQNHRTVS LAKKVIIGPW</p> <p>VMALLTLPV IIRVTVPGK TGTVACTNF SPWTNDPKER INVAVAMLT</p> <p>RGIIRFIIGF SAPMSIVAS YGLIA TKHK QGLKSSRL RVSFVA AAF FLCWSPYQV</p> <p>ALIA TVRIR E LLOQMYKEIG IAVDVT SALA FNSCLNPM YVFMGQDFRE</p> <p>RLIHALPASL ERALTEDSTQ TSDTATNSTL PSAEVELQAK</p> <p>alggaacaa actctccat tctctgaat gaactgagg aggtgtctcc tgactgtctt ggcacacag ttcttgat ctctatg A Homo sapiens</p> <p>clagtccag gagtcaact tctctcgg gtcttggga atgggttgtt gacttgggtt gcttgggtt gcttgggtt</p>
631	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	<p>cccagacta gaactaccca gagcaagacc acagctgggt aacagtccag gagcagacaa gatggagaca aattctctc A Homo sapiens</p> <p>tcccacagaa catctctgga gggacacctg ctgtatctgc tggctatctc ttctgggata tcaactta tctgtattt gcagctacct</p> <p>ttgtctctgg ggtcttgggc aacgggcttg tgaictgggt ggcctggatt ccggaatgac acacagtac caccatcagt</p> <p>tactgaacc tggccgtggc tgaacttgt ttacctoca ctggccatt ctatgctt aggaaggcca tgggaggaca ttggcccttc</p> <p>ggctgggttc tgtgcaaat cgtctttacc atagtgagca tcaacttgt cggaggtgc ttcttgatgc cctcatgic tctggaccgc</p> <p>tgtgtgtgc tctgtatcc agtctggacc cagaaccaac gcaccgtgag cctggccaaag aaggtgacatc ttgggcoctg</p> <p>ggatgagct ctgtctctca catgccaagt tatcaatgt gtaactacag taactgggaa aagggggaca gtagccigca cttaaat</p> <p>ttggccctgg accaagacc ctaaaatgag talaaatgt gccgttgcca tgttgacgtt gaaaggcaic atccgggtica</p> <p>tcaatggctt cagcgaccc atgtccatcg ttgtgtcag ttatgggtt atggccatc atgocacca gcaaggcttg attaatgcca</p> <p>gtcgtccctt acgggtcttc tctgtgtc cagcagcctt ttctctgc tgggtcccat atcaggtggt ggccttata gccacagca</p> <p>gaatccgtga gtaatgcaa ggcaatgaa aagaatgg latgacagt latgacaa gggccctggc ctcttcaac</p> <p>agctgctca acccatgt ctatgctc atggccagg acttccggga gaggctgac cagcccttc ccgcccgtct</p> <p>ggagaggggc ctgaccagg actcaacca aacagtgac acagtlacca atttactt accctgca gagggtgagt</p> <p>tacaggcaaa gtaggaggag agctggggga cacttccag ctccagctc cagcttctc tcaactgag ttaggctgag</p> <p>cacaggcat tctgttat ttaggatta cccactcatc agaaaaaa aaaaagcct ttgtgtccc tgattgggg agataaaca</p> <p>galataggtt</p> <p>METNSSLPIN ISGTPAVSA GYLFLDIITY LVFAVTVLG VLGNGLVWV P</p> <p>AGFRMTHVT TISYLNLA VA DFCFTSTLPF FMVRKAMGGH WPFGWFLCKF</p> <p>VFTIVDINLF GSVFLIALIA LDRCVCVLHP VWTQNHRTVS LAKKVIIGPW</p> <p>VMALLTLPV IIRVTVPGK TGTVACTNF SPWTNDPKER INVAVAMLT</p> <p>RGIIRFIIGF SAPMSIVAS YGLIA TKHK QGLKSSRL RVSFVA AAF FLCWSPYQV</p> <p>ALIA TVRIR E LLOQMYKEIG IAVDVT SALA FNSCLNPM YVFMGQDFRE</p> <p>RLIHALPASL ERALTEDSTQ TSDTATNSTL PSAEVELQAK</p> <p>alggaacaa actctccat tctctgaat gaactgagg aggtgtctcc tgactgtctt ggcacacag ttcttgat ctctatg A Homo sapiens</p> <p>clagtccag gagtcaact tctctcgg gtcttggga atgggttgtt gacttgggtt gcttgggtt gcttgggtt</p>
632	190824	Formyl Peptide Receptor-Like 2	NM_002030	<p>cccagacta gaactaccca gagcaagacc acagctgggt aacagtccag gagcagacaa gatggagaca aattctctc A Homo sapiens</p> <p>tcccacagaa catctctgga gggacacctg ctgtatctgc tggctatctc ttctgggata tcaactta tctgtattt gcagctacct</p> <p>ttgtctctgg ggtcttgggc aacgggcttg tgaictgggt ggcctggatt ccggaatgac acacagtac caccatcagt</p> <p>tactgaacc tggccgtggc tgaacttgt ttacctoca ctggccatt ctatgctt aggaaggcca tgggaggaca ttggcccttc</p> <p>ggctgggttc tgtgcaaat cgtctttacc atagtgagca tcaacttgt cggaggtgc ttcttgatgc cctcatgic tctggaccgc</p> <p>tgtgtgtgc tctgtatcc agtctggacc cagaaccaac gcaccgtgag cctggccaaag aaggtgacatc ttgggcoctg</p> <p>ggatgagct ctgtctctca catgccaagt tatcaatgt gtaactacag taactgggaa aagggggaca gtagccigca cttaaat</p> <p>ttggccctgg accaagacc ctaaaatgag talaaatgt gccgttgcca tgttgacgtt gaaaggcaic atccgggtica</p> <p>tcaatggctt cagcgaccc atgtccatcg ttgtgtcag ttatgggtt atggccatc atgocacca gcaaggcttg attaatgcca</p> <p>gtcgtccctt acgggtcttc tctgtgtc cagcagcctt ttctctgc tgggtcccat atcaggtggt ggccttata gccacagca</p> <p>gaatccgtga gtaatgcaa ggcaatgaa aagaatgg latgacagt latgacaa gggccctggc ctcttcaac</p> <p>agctgctca acccatgt ctatgctc atggccagg acttccggga gaggctgac cagcccttc ccgcccgtct</p> <p>ggagaggggc ctgaccagg actcaacca aacagtgac acagtlacca atttactt accctgca gagggtgagt</p> <p>tacaggcaaa gtaggaggag agctggggga cacttccag ctccagctc cagcttctc tcaactgag ttaggctgag</p> <p>cacaggcat tctgttat ttaggatta cccactcatc agaaaaaa aaaaagcct ttgtgtccc tgattgggg agataaaca</p> <p>galataggtt</p> <p>METNSSLPIN ISGTPAVSA GYLFLDIITY LVFAVTVLG VLGNGLVWV P</p> <p>AGFRMTHVT TISYLNLA VA DFCFTSTLPF FMVRKAMGGH WPFGWFLCKF</p> <p>VFTIVDINLF GSVFLIALIA LDRCVCVLHP VWTQNHRTVS LAKKVIIGPW</p> <p>VMALLTLPV IIRVTVPGK TGTVACTNF SPWTNDPKER INVAVAMLT</p> <p>RGIIRFIIGF SAPMSIVAS YGLIA TKHK QGLKSSRL RVSFVA AAF FLCWSPYQV</p> <p>ALIA TVRIR E LLOQMYKEIG IAVDVT SALA FNSCLNPM YVFMGQDFRE</p> <p>RLIHALPASL ERALTEDSTQ TSDTATNSTL PSAEVELQAK</p> <p>alggaacaa actctccat tctctgaat gaactgagg aggtgtctcc tgactgtctt ggcacacag ttcttgat ctctatg A Homo sapiens</p> <p>clagtccag gagtcaact tctctcgg gtcttggga atgggttgtt gacttgggtt gcttgggtt gcttgggtt</p>

635	190948	EMR2 Hormone Receptor	NP_038475.1	<p>agcaccicac tgcctcgc gcctcctcc tgcctctcc tggccacct cctctctcc tgggcaattg atcaaacggg acaaaggcg ctgtctcca tcatccggg taactggcac tatcttacc tggccacctt caactggalg ctgtcggagg cccttacct ctctcact gacgggaacc tgcagggtgt caactacta agatcaaca gattcaltgaa gaagctcatg ttccctggg gtaaggag cccagctgtg acagtgggcca ttctcgcgc ctcaggcct caacttaltg gaacacctc ccgtctcgg ctcaacagg aaaaaggatt tatatggggc ttcttggag ctgtcgcgc cactctct gtgaattag ttctttct gggtacttc tggatttga aaacagact ctctccctc aataggaag tgcataact ccggaaacaca aggtatgtgg catttaagc gacagctcag ctgtcacc tgggtcgcac gtagtctctt gtagtctctt aggtgggtcc ggtcggccgg gtcaggcct acctctcac calcatcac agcctgcagg ggtcttcat ctctcgttg tactcctcc tcaagccagca ggtccgggag caatatggga aalggtccaa agggatcagg aatgtgaaa ctgagtctga gtagcacaca ctctccagca gtgtaaagg tgcacctcc aaocccagca cggtaacta gaaaactct ctgaataaga tctccctt tgcgggtgg aaaatctgaa caatcttga gccatctga ggggaagaa aagactttgt tctgtgtt tcaagaaatt caccaltgca gcaatagaa ggatgtatg gaaggcgtgc tggcaltca attctgcag aaaccggaaa tctccatgc cctgcaatgt gctcatcaa ctctcagcal atggcggcc agctcggcc calatctgg tcaacttgg gcaaalatt tatgaagcta tagaagctia agactcttt cacaacctt cctctcata aagactctc caaatctta aatgaagcag gaaacaagc ctgaaggagc ttcataccg acaacatct aaggactag aatgtcaca ccagatctg gattctaa ttuittgt ttgtttgt tgtcttctg tttaogggg ttgattatt agtaltgaa aaaaatgta ttactcac atagatcaag agagacagg cctcgcct calggagcti ttgggggaaa atgaagggg tcttgagct agagttagt cagaagccga aattcttga aatcagggt ctactgctag gcaatgaa gataaactat ttataaca ctgtctct tcaatcac</p>	P	Homo sapiens
636	190955	Leukotriene B4 Receptor BLT1	NM_000752	<p>MGGRVFLVFL AFCVWLTLPG AETQDSRGA RWCPQDSSCV NATACRCNPG FSSFEIIT PMETCDDINE CATLSKVSCG KFSDCWNTG SYDCVCSG EPVSGAKTFK NESENTQDV DECCQNRLC KSYGTCVNTL GSYTCQCLPG FKLKPDPK CTDVNECTSG QNPCHSTHC LNNVGSYQCR CRPGWQPIPG SPNGPNTVC EDVDECSGQ HQCDSTVCF NTVGSYSCR RPKWKPRHGI PNNQDVTCE DMTFTWTP PGVHSQJLSR FFDKVQDLGR DYKPLANN IQSILQALDE LLEAPGDLET LPRQQHCVA SHLLDGLDV LRGLSKNLSN GLLNFSYPAG TELSLEVQKQ VDRSVTLRQN QAVMQLDWNQ AQKSGDPGPS VVGLVSIPGM GKLLAEAPLV LEPEKQMLH ETHQGLLDG SPILLSDVIS AFLSNNDTQN LSSPVTFHS HRSVIPRQKV LCVFWEHQG GCGHWATTGC STIGTRDTST ICRCTHLSF AVLMAHYDVQ EEDPVLTVIT YMGLSVSLLC LLLAALTFL CKAIONTS LHLQLSLCLF LAHLFLVAI DQTGHKVLCS IIAGTLHYLY LATFTWMLLE ALYFLTARN LTVVNYSSIN RFMKKLMFPV GYGPAVTVA ISAA SRPHLY GTPSRCWLQP EKGFIVGFLG PVCAFSVNL VLFLVTLWIL KNRLSSLNSE VSTLRNTRML AFKATAQLFI LGCTWCLGIL QVGPAARVMA YLFTIINSLQ GVFI FLVYCL LSQQVREQYG KWSKGIRKLLK TESEMHITLSS SAKADTSKPS TVN</p> <p>gcaattctt cacatccgt ggggicagga agcctctt gaactctgac ttagtttt gctgcggtt cgcgccatt ttctatc ctctgacgc tgcaggta tctctgtt ggtttctc caagcagac aagtggggc tctgaaagg ttaaggacc tcaggcca ccataact ttgcattt cctgagaat gagaattgaa agggagcag gaaggccat ggtcagattg aagggaaggc tttaggtt ctttttt tttagaat gtagtctgc tctgaltc aggtggag gtagtgggc gattcagct cactcagcc tccactctt ggttccat gattctctg cctcagcct ccaagtagct gtagttag gcaatgcca</p>	A	Homo sapiens

637	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	MNITSSAAPP SLGVEFISLL AIILLSVALA VGLPGNSFVV WSILKRMQKR SVTALMVLNL ALADLAVLLT APFFLHFLAQ GTWSFGLAGC RLCHYVCGVS MYASVLLTA MSLDRSLA VA RPFVSQKLRT KAMARRVL AG IWVLSFLLAT PVLAYRTVVP WKTNMSLCFP RYPSEGHRAF HLIFEAVTGF LLPFLAVVAS YSDIGRLQA RRFRRSRRTG RL VVLJILTF AAFWLPYHVV NLA EAGRALA GQAAGLGVG KRLSLARNVL IALAF LSSV NPVL YACAGG GLLR SAGVGF VAKLLEGTGS EASSTRGGG LQQTARSQPA ALEPGPSESL TASSPLK LNE LN aigalgccct ttgocacaa talaatnaat atttccgtg tgaanaacaa cttggccaat gatgccgtg cttccgtg aagttuag	P	Homo sapiens
638	191039	Trace Amine	AF380185		A	Homo

639	191039	Trace Amine Receptor 1 (TA1)	AAK71236.1	<p>gfgtcatala ttctgaccac actcgtggcc aatc/galag ttaligttic tatalacacac ttcaacaac ttalacacc aacaalatiggg</p> <p>ctalcattc ocalggccac tggagactt cttclgggggt gtcclggat gcttaccagt atgggtgagat ctgctgagaca cttgggtgat</p> <p>ttggagaag tctctctgtaa aattacacaca agcacccagaca ttalgtctgag ctacagccccc atttccatt tgccttcat ctccattgac</p> <p>cgtctactatg ctgtgtgtga tccactgaga talaaagcca agatgaatat ctgtgtatt tgggtgtgaga tcttcattag ttgaggtgtc</p> <p>ccgtctgttt ttgcatttgg aatgatactt ctgggtgctaa acttcaaaagg ccgtctgagaag atalattaca aacatgttca ctggcagaagga</p> <p>ggttgtctg tctcttttag caaaalatct ggggtactga ctttttagac tcttttat alaccctggat ctattatgt atgtgtctat</p> <p>tacagaalat atcttatcgc taaaagaacag gcaagatlaa ttatgtatgc caatcagaag ctccaaattg gnatgtgaaat</p> <p>gaaaatgga atttacaaga gcaagaagaag gaagaactgtgc aagacatggg ggaatgtgat gggagatttuc ctalatatgt</p> <p>gggtccctt ctttatctgt acagtatgg acccttttct tcaatcatt attcaactta ctttgaatga tgggtgtgat tggtttggct</p> <p>acttgaactc tacatttaat ccaalgttt atgcatttt ctatcttgg tttagaaaag cacttgaagat gtagctgttt ggtataaatt</p> <p>tccaaaaaga ttacccagg tgaatatat ttitggaatt gagtcatag</p> <p>MMPFCHNIIN ISCVKNNWSN DVRASLYSLM VLJLITLVG NLIIVTVSISH</p> <p>FKQLHTPTNW LIHSMATVDF LLGCLVMPYS MYRSAEHWCWY FGEVFCKIHT</p> <p>STDIMLSSAS IFHLSFISID RYYAVCDPLR YKAKMNILVI CVMFISWSV PAVFAFGMIF</p> <p>LELNFKGAEI IYKHKVHCRG GCSVFESKIS GVLTFMTSFY IPGSMILCVY</p> <p>YRIYLIKEQ ARLISDANQK LQIGLEMKNG ISQSKERKAV KTLGIVMGVF</p> <p>LICWCPFFIC TVMDPFLHYI IPPTLNDVLI WFGYLNSTFN PMVYAFFYPW</p> <p>FRKALKMMLF GKIFQKSSR CKLFLELSS</p>	P	Homo sapiens
640	191132	G Protein- Coupled Receptor 88 (GPR88)	NM_022049	<p>gggttcaca tcaagcacca ctctctgttc tgaagcacagg gttctctct cttagactca gcttctgat ttgcagccaa gcatcttgc</p> <p>tgtctctgc ttgcctggcca ccg-gctctggg ctggcagccc gcaactttac ttcttcagg ccctgatacca gctgagaagt</p> <p>ctctctcag ctgtctagtct ctggccagga ccaltgttgt ggaatgtctgt tgggtgagaagc ttggcacttgc tcttggcact</p> <p>gatccagct gtagtttctcc tggatctc tggaccacgt atgtctgttc tgaaggaggtga ttctgtggca tctctccccc tgaagacacgg</p> <p>gctaaaggac accctaaacg caaggcaggtga cagtgtcagg alggaacggcg ctggcagaaga ccgacgtctag cgaagggtgggt</p> <p>gtgaagggtt ggcagaagaatg accaatctct cctccacatc cactctctcc accaac-ggtt gctgtctgt gctgtctgc</p> <p>gaggtgaagg agtctgtggcg gggccggggcg atccgggtgt cactctgtga ttggggccctg gccaatcgggg gcaacgtggc</p> <p>caacggcatg gtcactatc tctgtctgc cttccgaaag ctgcaagaca ccagacaaagc cttatgttg aacgggtctggc</p> <p>ccgcccgaact cagcgtctgc gccccttggga ttccggcaggtga ggggtgtgtctc ggggtctctgc ccacgggtctc ttggggagccc</p> <p>ccggcagact ggggtacggcg ttggggggcagc tacc-gctctgc taccgggggtgg gtcgtctgggg ctg-ggtacta cgtgtgtctct</p> <p>ccctccac ttgcctgtgg ccctgaacccg ctactgtctc atcacccggcg ccgcccggcac ctacacgggg ctgtatccatga</p> <p>ggcgtccacac gggcgggcaltg ctgggtctgt cttgggtcgt ctggccctggcg ctgtctctgc ttgtcccgcc ctggggcaccg</p> <p>cggcccgggcg ccggcgccac gccaatccac taccggggcg ttgtgtggcg ccgagggcgctgc ctggcggtcaga cagctctgtc</p> <p>gctgtcactgc taccctgggtga tctgtgtggccg cgtgtgtgtgc agcgtgtcaggtt ggtcacttcc caactgtctgc</p> <p>accagtttgc cggctctgc ccggccggccg ccggcttccc gggcggtccagc cagctgtcccg gcccgggtgtgc cggccggcac</p> <p>ccgggtcaggg ccacagccctt gcccggccg ctggcaccgc gggcggtgtcaga gtcgggtgtctc agcgtgtctct cgtgtgtctc</p> <p>gctctgtctc gttcttccctg ttgggtcagga ggcactgtgt ttgggtgagtc ttggcagcg cttctctgtc ccgggtgtctc</p> <p>gggggtgtga cggccacagc ttgtctctgt gctgtgtgtct ttgtgtgtctc tctacacgtgc tctacacgtgc ggaaggacggag</p> <p>gtagtttccgc gctctcgtctc ctacgtctc ccgggtgtgtc gtcagcgtgtc ggcctctgtc gttccgtcaga cagctgtgtc</p> <p>cgtcaggtct cagggcgtcaac ttggggcaccgc ccggccggcgggcg cagtcagctgt aactctgtcc gttccgtcaga cagctgtgtc</p> <p>tcgccggctt ccgagcgtct ttggggcaccgt ccgtctcttc cctcttaggg catccctgc ctggaacgaag acttccggcg</p> <p>cgaagcccgga tagatcggggg gaaatgtggg ccttggaccc cagcgtgggtga ccttgaaccaa gggcgtctctc taagtgtggcg</p>	A	Homo sapiens

641	191132	G Protein- Coupled Receptor 88 (GPR88)	NP_071332.1	<p>gocggaaglc atttggagc gccacctgat tttaacctt tttttctgt ttttagaga atccataagt caaaacacca gtagacttgaa gaaactgcaa actggcgttt taaaataaac ggttaattta ttccacaca gtttgtttt gaaaaagagc ttccataatg tataacctt tccactttca tgccttata tatgaagcgc ctggagtgig calgaaccaa aggaataaac attgaagaag gaaaaaata tgtagaaagt atttagaaa gtaacctgic tttagalgig ctctctac catttagtt ttgtatata ccttggggcca gtagagcct aggtgtgccc accagataga gtggccattia agacctcaag ccccttatic ttaaaagggt tttaataaa gtcctttica aalggagtag aatcttagcc agtgaagaaa aaaaatttt ttgtctctt tttttgca ctcttaagc tgaataagg cgttgaggtg talagtgaaa attttcagt ttgaatag alggtcagag ccagcacctgg aatttgaaa acaataaagg ttattatcia tttaggttac cgtttcacat ttttatagc algcacacti gttgtaacc tcauttiga accaatttat ttgcttaig aalggtatg cagcttgaaa cttctgtiac tgtaalggti gctaaagaga ataaagtcctt ctgtttctc tttaacatt aaaaatactc aalgcacatg atataatata acactaata taacctgact gcalagctaa lattagctgc latlgcagc tctagatgc tagaactat tggcagtgig gtatactgaa gcalacocg ttagacaagg alattttat tcttcagac accagaagaa alggtctca atatttgaa aagagacaca gtagaacctc tggctacocia gagttctcc tgcctgacc aatttagag aagctccca gttgggacti latctacaa gtagaatcac agtcaagagag galcaataat atggttggct cagcaagcc agctgigcic tttaggggti taaacagcc acaggtaga aagcaaacact gttttatgt agttcalata lattaccag acatttaaca tcaatagt alalgtgaa gtaggtatata taaactcagt calatatagt gaacagttca aalgggaaag tgttcaaaa calattttt gagggttgc atattcalct ttgtttact aaatttact agaaatatt gaaalgcaaa atgtgtgaa atcacctat caaataaaa tgggagaa gaaattttia taattttia taatcalatg tcaagctct gactacttac cacatcaat ctgggccaac acagocctcag ttaactgcat aattcaggaa caaacaccg tgcctgtt gcaagccigg gcaatticag ccaggacatt aggaocacti gttgatac tgaataata tggaggtgg gaaatgtaa ggaatacaaa latgtcalc accaacaalc agctgcat tttaact atccctttg tgcagcacc attctct tactaacagt ttacttgt cacatttcc ttgattcaaa lattaaagt cagaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa</p> <p>MTNSSSTSTS STTGSSLLL CEEESWAGR RIPVSLYSYG LAIGGTLANG MVTYLVSFR KLQTTNSAFI VNGCAADLSV CALWMPQEA V LGLLPTGSAE PPADWDGAGG SYRLRGGLL GLGLTVSLLS HCLVALNRYL LITRAPATYQ ALYQRRHTAG MLALS WALAL GLVLLPPWA PRPGAAPPRI HYPALLAAAA LLAQ TALLH CYLGIVRRVR VSVKRVSVLN FHLLHQLPGC AAAAAAFPGA QHAPGPGGAA HPAQAQPLPP ALHPRRAQRR LSGLSVLLLC CVFLLATQPL VWVSLASGFS LPVPWGVHAA SWLLCCALSA LNPLLYTWRN EEFRRSVRSV LPGVGDAAA A VAA TAVPAV SQAQLGTRAA GQHW</p> <p>ggctgcaata actactacti actggatata ttaaacctt ccagaatcaa cagtattcag gtaaccaaca agaaatgcaa ggcgtcgaca acctcaacti tgcctcigg aacaccagc tgtgcaccag agacatacaa atcacccagg tctcttccc actgcttac actgctgt ttgttgg actatcaca aalgccctgg cgalggagat ttcttcaa atccggagta aatcaacti tatttttt ctaagaaca cagctattc tgaatctic algatctga ctlttccat caaaattct agtalgcca aactgggaaac aggaccactg agaaatttg tgtgtcaagt taccctgc atatttat tcaaatga tatcagttt tcatcttgg gactgataac tatctagc taccagaaga ccaccaggcc attaaaca tcaacocca aaaaactctt gggggctaaag attctctc tgtctactc ggcattcag ttctactct ctggccaa calgattc accaaccagg agccggagaga caagaalgig aagaalgct ctctctaa atcagagtic ggttagcti ggcalgaaat agtaaatlac atctgcaag tcaattic gataattic ttaattgta ttgtatgta tacctcatt acaaaagaaac tgaacggic atacgtaga acgagggggg taggttaagt cccaggaaa aaggggaacg tcaagttt cattacti gctgattct ttattgtt tgtctcttc catttggcc gaaatccia caactcagg caaacccggg atgctttga ctgacacti gaaatactc tgtctatgt gaaagagagc actctggtgt taactctt aalgcalc ctggatccgt tcatctatt ttctctgc aagctctca gaaattcct gataaglatg ctgaaglgcc ccaattcgc aacatctc tccaggaca</p>	P	Homo sapiens
642	191168	P2Y12 Platelet ADP Receptor	NM_022788	<p>ggcgtcgaca acctcaacti tgcctcigg aacaccagc tgtgcaccag agacatacaa atcacccagg tctcttccc actgcttac actgctgt ttgttgg actatcaca aalgccctgg cgalggagat ttcttcaa atccggagta aatcaacti tatttttt ctaagaaca cagctattc tgaatctic algatctga ctlttccat caaaattct agtalgcca aactgggaaac aggaccactg agaaatttg tgtgtcaagt taccctgc atatttat tcaaatga tatcagttt tcatcttgg gactgataac tatctagc taccagaaga ccaccaggcc attaaaca tcaacocca aaaaactctt gggggctaaag attctctc tgtctactc ggcattcag ttctactct ctggccaa calgattc accaaccagg agccggagaga caagaalgig aagaalgct ctctctaa atcagagtic ggttagcti ggcalgaaat agtaaatlac atctgcaag tcaattic gataattic ttaattgta ttgtatgta tacctcatt acaaaagaaac tgaacggic atacgtaga acgagggggg taggttaagt cccaggaaa aaggggaacg tcaagttt cattacti gctgattct ttattgtt tgtctcttc catttggcc gaaatccia caactcagg caaacccggg atgctttga ctgacacti gaaatactc tgtctatgt gaaagagagc actctggtgt taactctt aalgcalc ctggatccgt tcatctatt ttctctgc aagctctca gaaattcct gataaglatg ctgaaglgcc ccaattcgc aacatctc tccaggaca</p>	A	Homo sapiens

643	1911168	P2Y12 Platelet ADP Receptor	NP_073625.1	<p>ataggaaaa agaacaggat gggtgggaacc caaatgaaga gactccaatg taacaanaat aactaaggaa atattcaat ctcttggc tgaagactcg taaagcaaa ggciaaagta aanaatataa cgaagaaga agcaactaag taataaataa tgaactiaa gaaacagaag atacaaga caatttcat ttactttcc agtaaaaaa gctacttaaa aataagaata actaatctaa actgaagcig tattagcagc aaaaacaacg ac</p> <p>MQAVDNL TSA PGNTSLCTRD YKIQVLFL LYTVLFFVGL ITNGLAMRIF P</p> <p>FQRSKSNFI IFLKNTVISD LLMLTFPFK ILSDAKLGTG PLRTFVCQVT SVIFYFTMYI</p> <p>SISFLGLITI DRYQKTRPF KTSNPKNLLG AKILSVIWA FMFLSLPNN ITNRQPRDK</p> <p>NVKKCSFLKS EFGLVWHEIV NYICQVFWI NFLIVVCYT LITKELYSY</p> <p>VRTRGVGKVP RKKVNVKVI IIAVFICFV PFHFARIPYT LSQTRDVFDC</p> <p>TAENTLFYVK ESTLWLTSLN ACLDPFIYFF LCKSFRNSLI SMLKCPNSAT</p> <p>SLSQDNRRKKE QDGGDPNEET PM</p>	Homo sapiens
644	1911193	Trace Amine Receptor 3 (TA3)	AF380189	<p>atggggaata attictocca agcigaaggct gggagagctgt gtiacaagaa cgtigaacgaa tctcgcatta aaactccita A</p> <p>ctgcagagt cctcgatcta tctctacgc cgtccttggc ttggggcig tctggcagc gtttggaaac ttactggica tgaatgctat</p> <p>ccttcacttc aaaaactgc acacactac aaacttctg attgcgcgc tggccgicg tgaacttcg ggggagica cfigatgcc</p> <p>cttcagaca gtaggctcig tggagagcig ttgtaacti ggggagagct actgaacti ccalacatgt ttgacacat cctctggtt</p> <p>tgtcttta ttcaattat gctgtaicig tttgatalaga tatctgctg ttactgacc tctgaacctat caaaccaagt ttactgigic</p> <p>agtticagggt atagcatig ttcttccig gttcttcti gtcacalaca gcttttcat cttttacagc gtagccaagc aagaaggaa</p> <p>tggagaatta gtagtgcic taacctgctg aggagcgc caggctccac tgaatcaaaa cggggtccta cttgtttic ttctattc</p> <p>taatacaat gtcgccatgg tttttalala cagtaagata ttittggcg ccaagcatca ggttagggaaag atagaaga</p> <p>cagccaacca agctcagcic tctcagaga gtiacaagaa aagtagagca aaaaagagaga gaaaggcigc caaaaccttg</p> <p>ggaatgcta tggcagcat tctgtctct tggctaccat acctgtga tgcagtgat gatgctata tgaatttat aactctcct</p> <p>taigttaag agatttatt ttgggtgt ttataat cagtaagaa cccctgatt tatgtctt ttaccaalg gtttgggaag</p> <p>gcaalaaac ttatgtaag cggcagcgc ttaaggcgc atcgtcaac aactaatta ttcttgaag aagtagagac agataa</p> <p>MVNNFSQA EA VELCYKNVNE SCIKTPYSPG PRSILYAVLG FGAVLA AFGN P</p> <p>LLVMIAILHF KQLHTPTNFI IASLACADFL VGVTVMPFST VRSVESCWYF</p> <p>GDSYCKFHTC FDTSCFASL FHLCCISVDR YIAVTDPLTY PKFTTVSVSG ICIVLSWFFS</p> <p>VTYSFSIFYT GANEEGIEL VVALTCVGGC QAPLNQNWVL LCFLLFFIPN</p> <p>VAMVFYSKI FLVAKHQARK IESTASQAQS SSESYKERRVA KRERKA AKTL</p> <p>GIAMAAFLVS WLPYLVDAVI DAYMNFITPP YVYEILVWCV YVNSAMNPLI</p> <p>YAFFYQWFGK AIKLIVSGKV LRTDSSTTNL FSEEVETD</p> <p>atgaatgagc cactagacta tttagcaaat gctctgatt tcccgatta tgcagctgct ttggaat gactgaiga aaacalocca A</p> <p>ctcaagagc actacccccc tttatttat ggcattatc tctcgtggg attccagc aatgcagtag tgaatocac ttactttic</p> <p>aaaaagagac ctgggaagac cagcacatc attatciga acctggcctg cagagatcig cttgactiga ccagctccc</p> <p>ctcttgatt cactactag ccagtgga aaactggatc ttggagatt tcatgtraa gttatccgc ttacttcc atttcaacct</p> <p>gtatagcagc atctctcc tcaacttct cagcalctc cgtactcig tgaatca cccaatgagc tgccttoca ttcaaaaa</p> <p>tctgaltgca gtttagcct gtcgtgtgt gtagatcalt tcaatggtag cttgcttcc gtagccttc ttgacatc caaccaacag</p> <p>gaaccaaga tcaagcctc tgaactcac cagttcgat gaactcata ctataatg gtiacaacctg atttgcig caactatit</p> <p>ctgctcccc ttggtagag tgacacttgg ctataccagc attatocca ctctgacca tggactgcaa actgacagct gcttaagca</p> <p>gaaagcaga aggttaacca ttctgact ccttgatc ttactatgt tttaacct ctatctgt agggctalc gtagcgaic</p> <p>tgccttgcit tcaatcaggt gttccattga gaatcagatc calgaagctt acatgctt tagacatta gcttctciga acaccttgg</p>	Homo sapiens
645	1911193	Trace Amine Receptor 3 (TA3)	AAK71240.1	<p>atgaatgagc cactagacta tttagcaaat gctctgatt tcccgatta tgcagctgct ttggaat gactgaiga aaacalocca A</p> <p>ctcaagagc actacccccc tttatttat ggcattatc tctcgtggg attccagc aatgcagtag tgaatocac ttactttic</p> <p>aaaaagagac ctgggaagac cagcacatc attatciga acctggcctg cagagatcig cttgactiga ccagctccc</p> <p>ctcttgatt cactactag ccagtgga aaactggatc ttggagatt tcatgtraa gttatccgc ttacttcc atttcaacct</p> <p>gtatagcagc atctctcc tcaacttct cagcalctc cgtactcig tgaatca cccaatgagc tgccttoca ttcaaaaa</p> <p>tctgaltgca gtttagcct gtcgtgtgt gtagatcalt tcaatggtag cttgcttcc gtagccttc ttgacatc caaccaacag</p> <p>gaaccaaga tcaagcctc tgaactcac cagttcgat gaactcata ctataatg gtiacaacctg atttgcig caactatit</p> <p>ctgctcccc ttggtagag tgacacttgg ctataccagc attatocca ctctgacca tggactgcaa actgacagct gcttaagca</p> <p>gaaagcaga aggttaacca ttctgact ccttgatc ttactatgt tttaacct ctatctgt agggctalc gtagcgaic</p> <p>tgccttgcit tcaatcaggt gttccattga gaatcagatc calgaagctt acatgctt tagacatta gcttctciga acaccttgg</p>	Homo sapiens
646	1911196	G Protein- Coupled Receptor GPR80	AF411109	<p>atgaatgagc cactagacta tttagcaaat gctctgatt tcccgatta tgcagctgct ttggaat gactgaiga aaacalocca A</p> <p>ctcaagagc actacccccc tttatttat ggcattatc tctcgtggg attccagc aatgcagtag tgaatocac ttactttic</p> <p>aaaaagagac ctgggaagac cagcacatc attatciga acctggcctg cagagatcig cttgactiga ccagctccc</p> <p>ctcttgatt cactactag ccagtgga aaactggatc ttggagatt tcatgtraa gttatccgc ttacttcc atttcaacct</p> <p>gtatagcagc atctctcc tcaacttct cagcalctc cgtactcig tgaatca cccaatgagc tgccttoca ttcaaaaa</p> <p>tctgaltgca gtttagcct gtcgtgtgt gtagatcalt tcaatggtag cttgcttcc gtagccttc ttgacatc caaccaacag</p> <p>gaaccaaga tcaagcctc tgaactcac cagttcgat gaactcata ctataatg gtiacaacctg atttgcig caactatit</p> <p>ctgctcccc ttggtagag tgacacttgg ctataccagc attatocca ctctgacca tggactgcaa actgacagct gcttaagca</p> <p>gaaagcaga aggttaacca ttctgact ccttgatc ttactatgt tttaacct ctatctgt agggctalc gtagcgaic</p> <p>tgccttgcit tcaatcaggt gttccattga gaatcagatc calgaagctt acatgctt tagacatta gcttctciga acaccttgg</p>	Homo sapiens

Homo sapiens

P

taacttgta ctatattgg tggcagcga caactttcag caggctgtct gctcaacagt gagatgcaaa gtaagcggga
accttgagca agcaagaata allagtact caaacaacc ttga
MNEPLDYLAN ASDFDYAAA FGNCTDENP LKMHYLPVY GIHFLVGFP
NAVISTYF KMRPWKSSSTI MLNLACTDL LYL TSLPEL HYYASGENWI
FGDFMCKFIR FSFHNLYSS ILFL TCFISF RYCVIHPS CFSIHKTRCA VVACAVVWII
SLVAVPMTF LITSTNRNTR SACLDLTSSD ELNITKFWYNL ILTATTFCLP LVIVTLCYTT
IHHTLTHGLQ TDSCLKQKAR RL TILLALLAF YVCFLPFHIL RVIRIESRL SISCSENQI
HEAYVSGPL AALNFTGNLL LYVVSDNFQ QAVCSVRCK VSGNLEQAKK ISYSNNP
tccctggccc ttaataatg actaaalc ttaagcctc tgaattcc tctglaaaa caggggcggg aattacaca taacaggctg
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cagttgtct gtcactt aacagcagc ccaacccat calltact tctgggctt ctttaggaa gcaagggcgg ctgcagcag
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acccggga tgcggaag cagctcgtg tagatagg cagctcacc ttccatcaga tatgtggc ttgaggc
aacttggc cgtcgtc gatttga acttccag tctcgtt aaaaagta agagagctt tggaggtt aagttagaca
MDPTPAWGT ESTTVNGNDQ ALLLCGKET LIPVFLILFI ALVGLVGNF P
VLWLLGFRMR RNAFVYVLS LAGADFLFC FQIINCLVYL SNFFCSISIN
FPSFTTMT CAYLAGLSML STVSTERCLS VLWPIWYRCR RPRHLSAVVC
VLLWALSLL SILEGKFCGF LFSGDGSGWC QTDFDTAAW LIFLMVLCG
SSLALLVRIL CGSRGLPLTR LYL TLLTLTVL VFLLCGLPFG IQWFLILWIW KDSDVLFCHI
HPVSVLSSL NSSANPIYF FVGSFRKQWR LQQPILKLAL QRALQDIAEV
DHSEGCRRQG TPMSRSSLV
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647

191196

G Protein-Coupled Receptor GPR80

CAC51133.1

648

191218

MrgX2 G Protein-Coupled Receptor

AY042214

649

191218

MrgX2 G Protein-Coupled Receptor

AAK91805.1

650

191222

G Protein-Coupled Receptor Ls191222

LG94359

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651	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199 719	QTLAMHSIE MINNSTLLPG VKLGYEYDTC TEVTVAMAA TLRFLSKFNC SRETVFKCD YSSYMPRVKA VIGSGYSEIT MAVSRMLNLQ LMPQVGYEST AEILSDKIRF PSFLRTVPD FHQKAMAH L IQKSGWNWIG IITDDDDYGR LALNTFIQA EANNVCIAFK EVLPFLSDN TIEVRINR TL KKILEAQVN VIVFLRQFH VFDLFNKAIE MNINKMWIAS DNWSTATKIT TIPNVKKIGK VVGFAFRRGN ISSFHSFLQN LHLPSDSHK LLHEYAMHLS ACAYVKDIDL RLJHSIQLAV FALGYAIRDL CQARDQPN AFQPWELLGV LKNVTFIDGW NSFHDAHGD LNTGYDVVLW KEINGHMTVT KMAEYDLQND VFIIPDQETK NEFRNLKQIQ SKCSKECSPG QMKKTTRSQH ICCYECQNCPE NHYTNQTDMPHCLLCNNKT HWAPVRSTMC FEKEVEYLNW NDSLAILLI LSLLGIFVL VVGIFTRNL NTPVVKSSGG LRVCYVILLC HFLNFASTSF FIGEPQDFTC KTRQTMFGVS FTLCSRILT KSLKILLAFS FDPKLQKFLK CLYRPILJIF TCTGIQVVIC TLWLFAAPT VEVNVSLPRV ILECEEGSI LAFGTM LGYI AILAFICFIF AFKGYENYN EAKFITFGML TYFIAWTFIPIYATTFGKY VPAVEIIVIL ISNYGILYCT FPKCYVIC KQEINTKSAF LKMYSYSSH SVSSI	P	Homo sapiens
652	193511	EGF-Like Module-Containing Mucin-Like Receptor EMR3	NM_032571	ttttctggc taggaaggt ggtggcta cggcacaga gaggctcc agggctggct ggcgtgggat accgtacca cagaalga gggaccattg cttctccag gccctcgtt tctgtcagc ctttggag ctgtgacta gaaacacaa acttctgtg ctatggccc occaatgct tctgtgtca ataacatca ctgcacctgc aacctggat atacttgg atctgggag aaacttca cttccctt ggaagactt aacgacta atgaatgac accacactt agtgtatt g'tggattaa cgtgtgtgt tacaatgct aaggaagtt ctactgtca tgttccag gatatagact gcatctgg aatgaacat (cagtaatic caatgagaac accgtcagg acaccctc ctcaagaca accgaggga ggaagagct gcaaaagatt g'ggacaaat ttggtcact tctaccaat cagactttat ggaagaaga agggagaaca gaaatctcat ccacagctac cactatttc cgggagtggg aatcgaagt tctagaaact g'ccttgaag atccagaaca aagaagcttg aaaaaccaaa accgtagtgt agctattgaa actcaagcga ttacagaca ttgtctgaa gaaagaaga caltcaact gaacgtocaa atgaactcaa tggacatccg ttgcagtgac atcatccagg gagaacaca aggtccaggt gccattggct ttatcata ttctctct ggaacalca taaatgcaac ttttttga gagaaggata agaaagatca agtgtatctg aacttcagg ttgtgtgagc tgcatttga occaaaagga accgtgtct ctccaagtct g'gacgctga ctttccagca cgttgaagtg accccagta ocaaaaggt cttctgtgtc tact'ggaaga gacagaaggca gggcagccag tgggtccagg at'ggctgtct cctgatacac g'tgaacaaaga gtcacacat g'tgatttgc agtcaacctt ccagcttgc t'gtctgag gccctgaaca g'ccaggaggga ggaatccgtg ctgactgtca tcaactactg gggggcagc g'tctcttgc t'gtcttct c'tggcggcc ctacatttc tctgtgaa agccatccag aacacagca cctcactgca t'g'gacgtc t'ggcttgc ccaactctc tcttctggc ccaactctc ttctgt'gg ggaatgagc aactgaacc aagg'tgtgt gctocalcat c'gocgggtgt ttgcacalc tcaactggc c'gocctacc tggatgctgc t'ggaagggtgt gcaactcttc ctactgca ggaacctgac agt'gggtcaac tactcaagca tcaatagact calgaagtg atcalttcc cag'tcggcta t'ggcgttcc gctgtgactg t'ggccatttc t'gagcttcc t'ggcctacc ttatgggaac t'gctgagca t'gctggctcc acc'tggaaca g'ggattcaltg t'ggagtttcc t'ggccaggt ctgt'ggccatt ttctct'gca attagttat g'tttatctg g'tctttgga tt'tgaaag aaaaacttcc tcc'tcaata g'tgaag'tgc aacctaccag aacacagga t'gct'ggctt caaagcaaca g'tcagctct tcatctgggg ctgacacaltg t'gtctgggt t'gtacaggt ggggtccagct t'ggcctacct ctacacalc	A	Homo sapiens

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NP_115960.1

EGF-Like
Module-
Containing
Mucin-Like
Receptor EMR3

193511

653

CAC21687.1

G Protein-
Coupled Receptor
dJ402H5.1

193516

654

NM_001407

Cadherin EGF
LAG Seven-Pass
G-Type Receptor
3 (CELSR3)

193524

655

[illegible]

[illegible]

[illegible]

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NP_001398.1

Cadherin EGF
LAG Seven-Pass
G-Type Receptor
3 (CELSR3)

193524

656

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TARTAPASGS APRESRTAPE PAPKRMRSRG LFRCLPQR PGP RPPLPA
RPEARVTS A NRARFRRAAN RHPQFPQYNY QTLVPENEA GTAVLRVVAQ
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SGPLDRESVE HYFFGVEARD HGSPPLSASA SVTVTVLDVN DNRPEFTMKE
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EVPRSEG HS	
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658 193914 Neuropeptide FF 1 Receptor NP_071429.1

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659 194319 G Protein-Coupled Receptor FLJ22684 NM_025048

660	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	660	194319	MKVGVLWLIS FFTFTDGHGG FLGKNDDIKT KKELIVNKKK HLGPEVEYQL LLQVYRDSK EKRDRLNFKL LKPPLLWSH GLIRIRAKA TTDCNSLNGV LQCTCEDSYT WFPSPCLDPQ NCYLHTAGAL PSCHECHLNNL SQSVNFCERT KIWGTFKINE RFTNDLLNSS SAIYSKYANG IEIQLKKA YE RIQGFESVQV TQFRMSLLSP KLECNGTI	P	Homo sapiens
661	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NM_030774	661	194431	atgagttct gcaacttcc acaigccacc ttgtgctta ttgltatcc apgalttagag aaagccallt tctgggtgg cttccctc ctttacagt atgtatggc aatgttggc aactgacag ttgtttcat cgtatgagc gaacgagcc tgcacgtcc gatlaacct ttcttgcgc cttgacccg gccitalcca calcaacat gcciaagac cttgccctt tctgtttga ttccgagag attagcttg aggcctgtc taccagatg tttttatc atgcccctc agccattgaa tccaccatcc tctggccat ggccttgac cgtatggg ccatcgcca cccactggc calgtcgag tgcatacaa lacgtaaaca gccagatg gcatgtggc tctgttcgc ggaacctct lttttccc actgctctg ctagcaagc ggcgggctt ctgccatcc aatgtctct cgcactcta ttgttcac caggatgaa tgaagtggc ctatgcagac acttgccca algttggtala tggcttact gccatctgc tggcatggg cgtggacgta atgtcalct cctgttcta ttcttgata atagcaagc ttctgcaact gcttccaag ttagagcggg ccaaggcct tggaaacct gtgtcacaca ttgtgtgt actgctctc latggccac ttatggcct ctactgtga caccgttg gaaacagcct tcatccatt gtcgtgtg tcatgggtga cactaccc ctgctgctc ctgtcalca tccatcatc latgggtcca aaacaaaca galcagaaca cgggtgtcgt ctagttcaa gatcagctg gacaaggact tgcaggctgt gggaggcaag tga MSSCNFTTHAT FVLIGIPGLE KAHFWVGFLP LSMYVVMAMFG NCIVVFVRT	P	Homo sapiens
662	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	662	194431	ERSLHAPMYL FLCMLAADL ALSTSTMPKI LALFWFDSRE ISFEACLTQM FFIHLSAIE STILLAMAFD RYVAICHPLR HAAVLNNTVT AQIGIVAVVR GSLFFFLPL LIKRLAFCHS NVLSHSCYVH QDVMKLAYAD TLPNVVYGLT AILLVMGVDV MFISLSYFLI IRTVLQLPSK SERAKAFGTC VSHIGVLA FVPLIGLSV VHRFGNSLHPI VRVVMGDYLL LLPVINPII YGAKTKQRT RVLAMFKISC DKDLQAVGCK acttttca tgtctctt gaggtaaga tgaagaatt gaaagcagag tatgcacct ttataggag altcaactg catctactg gattagccic aaagtccia aalacaaag acalccacti gacagatcac tgaaggaggg acttggtt cigtittga atagtccg atlaacct ttatgctcaag aagaagaaga gctagtatt ttccaccag gagtgggtat tgggttggc ttaccatgg cttccgccc tgccttgaac cttaggtgc tgggtgtgt cgtgtgtgga ctactgtcgt gcalctatt gggaactggc atctgggga ttgtatcag gatccaaa ggaatctc ctctctc aagcacctc acagagcti gacaggaatgg tggaaacctgg gaaatggca gatgtatt lacagaagag tgaagaagac tatgatgtac aatgtcta ttgtgaaa atagtacct latgggttt acttttgcca gaatccagt gggcagatat ggaacatct tgcacaatg tggcaaggat actccaaalg cgggcaatcc aatggcagc cgtgtgtga gtcctct atatggagag atagaattac aaaaatgac aataggaaat tgcataaaca atctggaaac cctggaaaag caggtagagg atgtcacagc accattht aacattct ctgaagtcca gatttaaca tctgatgcca alaaatcac tcttgagaac atcactagc ctacgcggt ggttggagac atltcaaca ctccagaaa tgcitcaat ggggcaaga aagtgtccat agtaacagtg agtcaactc tagatgacag tgaagatgt tticaagag ttgtgtctac tgctatgat gatgoccta caagcttat tgaagaaalg gtagcttat cctgtctt gggaatcaaa tcatgtgtgg aaactaaca agcaatacag tcaagcaaat tcttcaga aaatgcgggt gggocitcaa algttgcct ctctgtgcag aaaggagcta gcagtctct agtttctagt tcaactta tacaacaaa tgttggatggc cttaacccag atgcacagac tgaagctcag gcttgccta atatgacaaa aaattacac aagacalgcg gcttctagt ttaacaaat gacaagctt tcaatcaaa aactttaca gctaaatcgg attttatga aaaaaatatc tcaagcaaaa ctgatgaaa tgaagcaagat caggtgtct cgtgtgacal ggtctttagt ccaagtaca accaaaaaga altcaactc latctatg cctgtgtcta ttgaattg tgaagcaag actgggacac atatggctgt caaaaagaca aggggcaciga tggattccig cgtgtccgct gcaacalac tacaatttt gctgtatata tgaatlucaa aaaggattat caalatocca	P	Homo sapiens
663	194743	FLJ14454	NM_032787	663	194743		A	Homo sapiens

664	194743	FLJ14454	NP_116176.1	MASCRAWNLR VLVAVVCGLL TGILGLGIW RIVRIQRGK STSSSTPTE FCRNGGTWEN GRICITEEWK GLRCTIANFC ENSTYMGFTF ARIPVGRYGP SLQTCGKDTP NAGCPMAVRL CSLSLYGEIE LQKVTIGNCN ENLETSLEKQV EDVTAPLNNI SSEVQILTSD ANKLTAEINIT SATRVVGQIF NTSRNASPEA KKVAIVTVSQ LLDASEDAFQ RVAATANDDA LTLIEQMETS YSLSLGNQSV VEPNIAIQSA NFSSENAVGP SNVRFSVQKG ASSSLVSSST FIHTNVDGLN PDAQTELQVL LNMTKNYTKT CGFVYQNDK LFQSKTFTAK SDFSQKIIS KTDENEQDQS ASVDMVFSPK YNQKEFQLYS YACVYWNLSA KDWDITYGCQK DKGTDGFLRC RCNHTTNFAV LMTFKDDYQY PKSLDILSNV GCALSVTGLA LTVIFQIVTR KVRKTSVTWV LVNLCISMLI FNLLFVFGIE NSNKNLQTS GDNINIDFN NDIPRTDTIN IPNPMCTAIA ALLHYFLLVT FTWNALSAQ LYLLLRITMK PLPRHFILFI SLIGWGVPAI VVAITVGVY SQNGNNPQWE LDYRQEKICW LAIPEPNGVI KSPLLWSFIV PVTHILSNV VMFTISIKV LWKNNQLTS TKKVSSMKKI VSTLSVAVVF GITWILAYLM LVNDDSRIV FSYIFCLFNT TQGLQIFLY TVRTKVFQSE ASKVLMLLSS IGRKSLPSV TRPRLRVKMY NFLRSLPTLH ERFRLLTSP STEEITLSES DNAKESI	P	Homosapiens
665	194745	G Protein-Coupled Receptor SLT/MCH2	NM_032503	cgggcgccgg cagggtctgc gaggcaccca cgcctctclaa aagagcacga cgcacccgat gcctcggtatg gaigaagtgc aagagctttaa tccctggaaa ggccagaaga acgaatcca ttacatgc cttgttgga cactctgc gaactttaa acaatccgc gaalaaagag ttgcctaac aaactgccag tgggttgat acagtacc tcccttacc atgttggtat atctgtcaca cagggtctggt tggcaacatc ctatgtat tcaataat aagatccagg aaaaaaacag tcccttgcat ctatctgc aacttgctgc tggctgatt gggtcacata gttgggaagc ctttttat tcaacaatgg gcccgagggg gaaggtgggt gtttgggggg cctctctgca ccatcatcac atccctggat acttgaacc aatttgcttg tagtgcattc atgactgtaa tgaagtgtga caggtaactt gcoctgcgc	A	Homosapiens

Homo
sapiens

P

NP_115892.1

G Protein-
Coupled Receptor
SLT/MCH2

194745

666

aaccatttcg actgacacgt tggagaacaa gglaacaagac catcgggac aatttgggoc ttitggcgagc ttctttatc
 ctggcatttc ctgtctgggt ctactgaag gtaacaaat tlaaagcggg tgttgaaggt tggcttttg atttgacatc ootigaagat
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MNPFHASCWN TSAELLNKSW NKEFAYQTAS VVDTVLPSM IGHICSTGLV GNLIIVFTII P
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 SLDTCNQFAC SAIMTVMSVD RYFALVQFPR LTRWRTRYKT IRINLGLWAA
 SFILALPVVY YSKVIKFDG VESCAFDLTS PDDVLWYTLV LTITTFEPL PLILVCYLI
 LCYTWMYQQ NKDARCCNPS VPKQXVMKLT KMLVLVVVF ILSAAPYHVI
 QLVNLQMEQP TLAFYVGYL SICLSYASSS INPFLYLLS GNFQKRLPQI QRRATEKEIN
 NMGNLTKSHF

Homo
sapiens

A

NM_032554

Chemokine
Receptor
FKSG80/GPR81

194756

667

ccacacac aggaacocga tcttgggtga tgaagtcaaga cagcagcagc ctgggtgagt gctaaagctc agataagcat
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 aatgaattc acacaact accittggg gaggttcag tt

MYNGSCCRE GDTISQVMPP LLIVAFVLA LGNGVALCGF CFHMKTWKPS P
 TVYLFNLAVA DFLMCLPF RTDYLLRRRH WAFGDIPCRV GLFTLAMNRA
 GSIVFLTVVA ADRYFKVWHP HHAVENTISTR VAAGIVCTLW ALVILGTVYL
 LLENHLCVQE TAVSCSFIM ESANGWHDIM FQLEFFMPLG IILFCSFKIV
 WSLRRRQQLA RQARMKKATR FIMVVAIVFI TCYLPVSAR LYFLWTPVSS
 ACDPSVHGAL HITLSFTYMN SMLDPLVYVF SSPSPKPFYN KLKICSLKPK

Homo
sapiens

P

NP_115943.1

Chemokine
Receptor
FKSG80/GPR81

194756

668

671	194858	G Protein-Coupled Receptor LS194858	LG94710	QGLFIFLHC LLNSEVRAAF KHKTKVWSLT SSSARTSNAK PFHSDLMNGT RPGMASTKLS PWDKSSSAH RVDLSAV	A	Homo sapiens
				ttagttaag tccaggtcga cactgttgg gctgttggg tggtaggcaa tgcitggggcc gggagctgtcc cggaggagctc ttcccacag cccctggcag cactttggg cggctccct ccaggggggct gtagagcgt gtagccacag cccalggct acgggcactg ccgctgact ggcactct agggagagaga gggagacaacag tgcocaggc cccagtgggc ggcgctgctc ataggccagg actgagagaga gtaggttggc cactgttggc cccagtaggc cccagcaca gcccgagagag cagcagctg cccttggc cctccaggtg agggccggg cagggccggg cggctcctc cggcacaacg cccgctccag ccggcagagag tctgtagct ggcggggggc agtggccagc acgctgacag agagagagag agagagagag acgagcagccc acggcgagccc atagactg aggtacaggt agggggggc gaaagtagcc tgggagctgc agtgggcaac aggggttccag tggttccacc ccagagcggg cagactggga aagagcaggg gaccagcca ggtgagagag agggccagcc gaatgctccc agggggctgg agtggccca gtagctcc cgtgaccca gcaagaggt ggcagagcag gtagagagag agaggttggg agcaagtag acgagagag aggacagta acccgccga cctgttcc acagccgg caatgtggg aatggcagac ccgtgagcag cccagccag agtaggctca ggaagagaga gccagcaggt gggcgtgcga ggcggggggc ccaggcgag ccaggggcga gtagcaggt cggcgtagt agagggctg ccaggggcag gtagagccc aaagccccc tgggaatggg gctgggccc tgcagctg tggggcgt cactgtg cttgggagag gggagcttc gtagggcag cggcagc QDTRHGNRP RAGCSNLT RKAQAQAIP APNSHACRLP LQDSPVPRTK	P	Homo sapiens
672	194858	G Protein-Coupled Receptor LS194858	ENSP00000053	MTNPSTGEVP SPIPKGALGL SLALSLIT ANLLALGIA GTAACAATCW LLLLPEPTAGW AAHSGSIAT PGLWNQSRG YWSCLLVLA PNFSFLSLLA NLLL VHGERY MAVRLPQPP GSIRLALLT WAGPLFLASL PALGWNHWTP GANCSSQAIF PAPYLEVY GLLLPVGA AFLSVRLAT AHRQLQDICR LERAVCRDEP SALARALTWR QARAQAQAML LFGLCWGPVY ATLLSVLAY EQRPLPGPT LLSLLSLGSA SAAAVPVAMG LGDQRYTAPW RQPPKGACRG CGEPPPGTVP APALPTTQAA KAVSTWT	A	Homo sapiens
673	194878	MrgX3 G Protein-Coupled Receptor	AY042215	tcaggccag gataagtaa tccggggc cagacactg gtagatgag tgggggggt tggatctaa tgtattccc atgttagcac agaacgtg tggcagtaga gtagggcag gcttcagag cagcaagaac tggatttcaa actggattg aggacoccca cctttgata ggtgactat tctgtgtag tctgtgtag gccccttta aatgaggaag taatccac atggcagggt gggtgggaga atcagatc atacagctg tgaacaaac tggtttctg ttccagggt accagactgg ggtttctgag cattgattca accatccag tctgggtag agaacag ccaatcac gactgtgaga gactccttc tacaagcaga ccctgagcti cagggggctg acgtgcatg ttccctgt cggcgtgaca ggaacggcg tttgtgtg gctcctggg tgcggcagc gcaaggagc tgtctcact taccctca accgtgag accgtgag cctctctta gggggccat tatatgtc ccgttagcc tcaatata ccggccatcc altccaaa tctcagtc tggatgacc ttccctat ttatgggt aagcagctg agccacatca gcaaggagc cttgcttcc altctgtgg ccatctgga ccatctgag cggccagat accgtgac ggataggt gctgtctt gggccctg cctgtgag agtatccg agtggagt cgtgactc cgttttagt ggtgtggt tgttgggt gaaagctag attatcac aatggcggt cttgtttt tatgtgtg tctgtggg tccagccgg tctgtggt caggatctc tgtggatcc ggaagatg gctgacag cttgagtag ccatctct cactgtg gttctctc tctgggt ggcctggc atcaggtgg cctgttc caggtacc cttgagga agtctat ttgtatg calciatit ccatttct gtcgctt aacagcag ccaacccat cattatc ttgtgggt ctttaggca ggcgaat aggcagac tgaagctgt tccagagg gctgtgag acagcctga ggtggagag agtggaggt ggtctctca ggaacccg gagctgtg gaaagagat gtagcagtag ggaagaaact ctgctgtg agtagagact ttgagagcaa tctgtctg ccacctga caatata caltttct agcttctg ctagaag	A	Homo sapiens

674	194878	MrgX3 G Protein-Coupled Receptor	AAK91806.1	MDSTIPVLGT ELTPINGREE TPCVKQTLSP TGLTCIVSLV ALTGNAVVLW LLGCRMRRNA VSIYLNLA ADFLFLSGHI ICSPLRLINI RHPISKILSP VMTPFYFIGL SMLSALTER CLSILWPIWY HCRRPRLSS VMCVLLWALS LLRSILEWMF CDFLFSGADS VWCETSDFIT IAWLVFLCV LCGSSLVLLV RILGSRKMP LTRLVYVITLL TVLVFLLCGL PFIQWALFS RIHLWDKVLV CHVHLVSIFL SALNSSANPI IYFVGSFRQ RQNRQNLKLV LQRALQDTPV VDEGGGWLPQ ETLESGSRL EQ	P	Homo sapiens
675	194903	G Protein- Coupled Receptor GPCRB3	LG100657	tcagrtggag ccgcaagccg ccgtgtagtc ctgaaaggag gccggaaagt gctctgctgt gttgaaggctt gggccggcaga ggatcacgta gacataggc agaaataacc caccgaagcc ccgtgctcagg ctgctcagcc cagccatcat gttggccgga ggcaggctact tgcctcgtga gacgctggcc gttgtgaaaga agggcgaacca ggagcagaa ggcactgag gaaaggagggc gacacatttg gccctgtgt agttcttg cagttoccta ccaggtagc tgcaggcaga ggcactgag gaaaggagggc cattgtagag gaaaggccagt atgaaagccca ggaggttgggt ctctgtgcac tcaagcatca ccagatggggg gaaagcgtgg tattocclag caggcagttgg ggtccacacc accaggccagg taaagacagat aagcagctgg gcccgtgagc tgaatcac aaacaggcca gcaaccgtgt ttggaccca ggcggtgtag aatgttaggtta ccttggttgg aaactgtgag atgtatgata gttggaaaga gccaacgtgc aggcagggaca ggaagtagtgt gaaacccaagg gcaaggaggg cctggcgtgtag caagcacgca ggccctgtgg gttcccaaa gaaagccatag agggctggccac taacctgag cagggtgagccc agcataaggaa agcacagggccg ggccctgtgt gacctacca cagggggtgtg taggtggccag gcaaacaggcc caggcagttccc aagcagcagc agcagcagca ggcgttagc tgcaggcagc accaaggaggg tgtgtctcag caaagccaaa aacacacagc tgcggcgggaa gcaaggctgg cttccctag gttccacc ttcttccca caaggctggc atctgttagg gttgaaagg gaaaggccaa gaaaggccaa agagccagat gaggcagata ggaataggaa ataggggccct gcaagatatt gggaatattg taacaggggca gctagactat actaggcala gttgggtagg gttgagccgg agtggggccct gaggccagc atttctcaa aatggccgtg taaatcac acttggaaga cacaggctc gttctgtat ggtctcatgat ccagtgagg tttgcaaac ctaggggagg acctaaact ggtagctctg ccacalacc aggaagggtta cgtatcgtag ggagggagcct gctcccaagg gaaaggccatg taacccctct ctctggcag cattccatg aaccacttc ctgagctgt gctctgtgt tctctgtat cctgacccc tgaaggacaga agggaaagtat tctgtccct acagggaagg tgaaggaaa gaaagtggcc ccgggacacc aactaaggac ctgaggtcctt agctacclaa tttgctct gttctgacc ttggattct ggaagggtta tgcgtttt tctctgtc caggacacgt agtatctgt ttaaggccaa gctgtcaa gaggtagctg tcttgatc ttgggtcaacaga agggcagata ggaacaggagg gcaaacagggg aacaaagct atatctatt aggaagaagg gttgaattca ggalagact gctttgttag gttgttag gtagctctc taacagaagg caacactcag tcaaaggctt tcagtggct aattctct ttctctt ttgttga gagggttt cttgtcgc ccaggctggta gttgcaatgt gcaatctgg ctacatgcaa cctccgctc ccgggttcaa gcaattctc tgcctcagcc tccggagtag ctgggaallac aggcacagc caaacccc ggttaactt ttgtatt ttgtagaga tgggggtttca ccatgtgtt caggctgtgtc tccaactct gacctagg gttccacca cctcggccct ccaaggtgt ggggtatcag gttgttagcca ccggcccccgg cctctctt ttttgggg ggaaggaattc tggctttgt gttcaggctc gaaatgcat tggctcactc caacctccg cttcgtgggt caaggtgattc tctgctca gctcccgag tagctggggat taccaggcag cggcacaca ccaagctaat tttaatt ttgttagag algggggtttc aactgtgg caggctgt ctggaact ccgaactcaag tgaacacc gctcagct cccaagggtc tgggttaata ggcatgagcc accgacacca gttggctgatt ctctgata gaaatctg tgggtcagg gttctccaa ccttgaaagct actggcagcc cagttgactgg gcttgggtc tggggcagggg cacatgggggg ccaatgggggg cctccctcc accgtgtagc ccccgggggt gctgggttagc tggctgtc cattggccac taccactct ttttgggaa gtttccagcc ccacaggggca cacactcaaa gcaagcagta tggaaacccc taocactc ctgggtgt tcaagcaggt cgtgtgggaaca cacagactta ggcactctga agaaagccaga gggtccacac gtagggggcc aagttcaagg acagctcaca tgggtgaacag aaaaacagat ctctgtgcat ctgcccacag gggtcactcc caggggcagg cccctgtgtc gttgaacttc cggcccagggg catctggcaca	A	Homo sapiens

[illegible]

677	194904	WO0034334- hFB41A	AX147788	<p>VLGSSTWSPV QLNINETKIQ WHGKNHQVPK SVCSSDCLEG HQRVVVTGFHH CCFECVPCGA GTFLNKSELY RCQPCGTEEW APEGSTQCFP RTVVFLALRE HTSWVLLAAN TLLLLLLGT AGLFAWHLDT PVRSAGGRL CFLMLGSLAA GSGSLYGFFG EPTRPACLLR QALFALGFTI FLCLTVRSF QLIIFKFST KVPITYHAWV QNHGAGLFVM ISSAAQLLIC LTWL VVWVTP L PAREYQRFP LVMLECTEIN SLGFILAFLY NGLLSISAF CSYLKDLPE NYNEAKCVTF SLLFNFSWI AFFTTASVYD GKYLPAANMM AGLSSLSSGF GGYFPLKCYV ILCRPDLNST EHFQASIQDY TRCGST</p> <p>gagcaacatg atcttttga agtactgac gggtgctgtc ttgacggta cgaagcacag agtgtgac atgctgttc tcatggcga A gcactgcacg atglagaagg cagttaggta ggtcttctcc ttcaacaaca cggtaggggaa gaagtcgcgc acgtatgta agccgttagaa gggcgccacg calagcacgt aggcgggtgag gatgcacatg agcacacagg cagcttctct gggcagcgc agcctctgc ggtatctgtc tgtctggat ccaaggaccg ccttgaaca ggtctcccg gtagatcctc calagcacag ggtcatggg accacggggc ccagaaatc tatgccaaag ataaagaggga agttaggacti gtagtagagc tgcgtgtcca caggccagat ctggccgcag aagatcttt cttggctct gacatgac aggaocgtct cgggtgggaa gtaggcggaa gggtagggga tcaaggtag cagctccac accaaggcaa tcaaggcag ggtgtttgg cacttcatc ggtgttcag cggatggga atagccagat acctaggga agaacaaga tggaggcagc C</p> <p>MGFMDDNATN TSTSLSVLN PHGAHATSP FNFYSYDYM PLDEDEDVTN P SRFFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLIANL AISDFLVAIV CCPFEMDYV VRQLSWEHGH VLCTSVNYLR TVSLYVSTNA LLAIDRYL AIVHPLPRM KCQTATGLIA LVWTVSILIA IPSAYFTTET VLIVKSQEK IFCGQIWPVD QQLYKSYFL FIFGIEFVGP VVTMTLCYAR ISRELWFKAV PGFQTEQRK RLRCRRKTVL VLMCILTAYV LCWAPFYGFT IVRDFPTVF VKEKHYLTAF YIVECIAMSN SMINTLCFVT VKNDTVKYFK KIMLLHWKAS YNGGKSSADL DLKTTIGMPAT EEVDCIRLK</p> <p>ggcacagggc gccggccgc atgtggagct gacgtggti caacgggaca gggctggggc agggagctgc tgcctgocag gacctgcagc tggggctgtc actgtgtgc ctgtctgggc tggtagggc cgtggccagtg ggcctgtgtc acaagcct gctgtgtc gccaactac acagcaaggc cagcatgacc atggcggagc tgtacttgt caacatggca gtaggcaggc tgggtctcag cggcctggcc cctgtgccc tgcctggccc cccgagctcc cgtgtgggc tgtgtgggt gggcggcga gtccacgtgg cactgcagat cccctcaat ggtgtctcac tgggtggcat gtactccac gccctgcga gccctgacca ctacatcgag cgtgcactgc cgggaacta catggccagc ggtgtacaaca cgcggcacgt gtcgggcttc gttgtgggtg gctgcgtgt gacagcttc tctctgtc tcttcat ctgtccat ggtgtccat gctggctaga gttgtccag atgtgaacg cagaactgc cgtgcocag ctgtgttca tgggtactg ggtgtccagc ctgtggccccc tctacgtgt ggtgtctact tcccgtcc gcaaggagga cagccccctc gacccgggaca cggggcggt gtagccccctc gcaacaaggc tgcgtgtgc caccgtgtc acgtgtgtt ggtctgtgac ggcacatct ctgtatctgc tggggcacac ggtgtatc tcggaggga agccgtgtga cgtcacatc ctgggtctac tgcacttgt gaaggatttc tccaaactc tggctctc cagcagctt gtagaccac tcttaccg ctacatgaac cagagcttc ccaagagct ccaagggctc atgaaaaagc tgcctgtgc ggaocggcac tgcctcccg accaatggg ggtgtggcag ggtgtgtc agggggccca gcccctcgt ggagagctga ctctgttga cgaagagcac ttgtatccc tggagctcc ccaactct ccaagaggag acgtgtgtc ggagaagaa cagtaggggt gttttctg aagtctt ttcccaa atgcactct tgggcaagg ctgtgttcc cgtgtgtgc atctgtgtc agtctcccg aggcctgtc gtttcccaa cagcagctc aaggtccaca tctgcaaaag</p>	Homo sapiens
678	194904	WO0034334- hFB41A	LR1114	<p>SRFFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLIANL AISDFLVAIV CCPFEMDYV VRQLSWEHGH VLCTSVNYLR TVSLYVSTNA LLAIDRYL AIVHPLPRM KCQTATGLIA LVWTVSILIA IPSAYFTTET VLIVKSQEK IFCGQIWPVD QQLYKSYFL FIFGIEFVGP VVTMTLCYAR ISRELWFKAV PGFQTEQRK RLRCRRKTVL VLMCILTAYV LCWAPFYGFT IVRDFPTVF VKEKHYLTAF YIVECIAMSN SMINTLCFVT VKNDTVKYFK KIMLLHWKAS YNGGKSSADL DLKTTIGMPAT EEVDCIRLK</p>	Homo sapiens
679	194905	G Protein- Coupled Receptor MGC7035	BC014241	<p>ggcacagggc gccggccgc atgtggagct gacgtggti caacgggaca gggctggggc agggagctgc tgcctgocag gacctgcagc tggggctgtc actgtgtgc ctgtctgggc tggtagggc cgtggccagtg ggcctgtgtc acaagcct gctgtgtc gccaactac acagcaaggc cagcatgacc atggcggagc tgtacttgt caacatggca gtaggcaggc tgggtctcag cggcctggcc cctgtgccc tgcctggccc cccgagctcc cgtgtgggc tgtgtgggt gggcggcga gtccacgtgg cactgcagat cccctcaat ggtgtctcac tgggtggcat gtactccac gccctgcga gccctgacca ctacatcgag cgtgcactgc cgggaacta catggccagc ggtgtacaaca cgcggcacgt gtcgggcttc gttgtgggtg gctgcgtgt gacagcttc tctctgtc tcttcat ctgtccat ggtgtccat gctggctaga gttgtccag atgtgaacg cagaactgc cgtgcocag ctgtgttca tgggtactg ggtgtccagc ctgtggccccc tctacgtgt ggtgtctact tcccgtcc gcaaggagga cagccccctc gacccgggaca cggggcggt gtagccccctc gcaacaaggc tgcgtgtgc caccgtgtc acgtgtgtt ggtctgtgac ggcacatct ctgtatctgc tggggcacac ggtgtatc tcggaggga agccgtgtga cgtcacatc ctgggtctac tgcacttgt gaaggatttc tccaaactc tggctctc cagcagctt gtagaccac tcttaccg ctacatgaac cagagcttc ccaagagct ccaagggctc atgaaaaagc tgcctgtgc ggaocggcac tgcctcccg accaatggg ggtgtggcag ggtgtgtc agggggccca gcccctcgt ggagagctga ctctgttga cgaagagcac ttgtatccc tggagctcc ccaactct ccaagaggag acgtgtgtc ggagaagaa cagtaggggt gttttctg aagtctt ttcccaa atgcactct tgggcaagg ctgtgttcc cgtgtgtgc atctgtgtc agtctcccg aggcctgtc gtttcccaa cagcagctc aaggtccaca tctgcaaaag</p>	Homo sapiens

680	194905	G Protein- Coupled Receptor MGC7035	LR112	<p>ccctcctgccc ttcagccctcc tccagcattca gtttgicaat gaagigatga aagctiagag ccagialtta tactitiggg ttaaaatact tgattccccc tigtitgttt tacaaaaaca gatgttccct agaaaaatga caaatagtaa aalgaacaaa accctacgaa agaattggcaa cagccagggt ggccggggccc tgcagtgagg ccgctgtgc tagcaaggcc tgcgggggtg ccgcagctca ccacaggggt ctgagaacat ttcacagaag tgcctagagac gcggagacat ggctgggttt aaatgagct attcaatagc agtgacgcgc tctctcagc caaaaaatgt ccttgacacc cctccagccc ccacacagata acalcagctg aggtttttt cagiatgaac cigtctaaa tcaaltctc aaagtgtga caaaactaaa gaataaat aaacaaga aggtgaaa aaaaaaaa aaaa</p> <p>MWSCSWFNGT XLVEELXACQ DLQLGLSLLS LLGLVGVVPV GLCYNALLVL ANLHKSAMT MPDVYFVNMA VAGLVLSALA PVHLLGPPSS RWALWSVGGE VHVALQIPFN VSSLVAMYST ALLSLDHYIE RALPRTYMAS VYNTRHVCVF VWGGALLTSF SLLFYICSH VSTRALECAK MQNAEADAT LVFIFYVVPV LATLYALVLL SRVRREDTPL DRDTGRLEPS AHRLLVATVC TQFGLWTHY LILLGHTVII SRGKPVDAHY LGLLHFVKDF SKLLAFSSSF VTPLLYRYMN QSFPSKLQRL MKKLPCGDRH CSPDHMGVQQ VLA</p>	P	Homo sapiens
681	194907	G Protein- Coupled Receptor 14273	LD22826	<p>TCCGGACTAG TTCTAGACCG CTGCGGGCCG CCAGGGCCCG GGAATGTCCC CTGAATGCCG GCGGCACG GCGACGCGC CCTTGCGCAG CCTGGAGCAA GCCAACCGCA CCGGCTTTC CTCTTCTCC GACGTCAAG GCGACCCCG GCTGTGCTG GCGCGGTGG AGACAACCGT GCTGTGCTC ATCTTTCAG TGTCGTGCT GGGCAACGTG TGGCCCTGG TGCTGTGGC GCGCCGACGA CGCCGCGCG CGACTGCCG CCTGGTACTC AACCTTCT GCGCGGACCT GCTCTTCAT AGCGCTATCC CTCTGTGCT GCGCGTGGC TGGACTGAGG CCTCCTGCT GGGCCCGTT GCTGCCACC TGCTCTCTA CGTGATGACC CTGAGCCGA CGTCAACCAT CCTACGCTG GCGCGGTCA GCCTGGAGGG CATGTTGRC ATCGRGACC TGGAGCGCG GGTGCGGGGT CCTCCGCGG GGCGCGGGC AGTGCTGCT GCSCTCATCT GGGCTATTG GCGGTGCGC GCTCTGCTC TGTGCTCTT CTTCGAGTC GTCCGCAAC GGCTCCCGG CGCCGACCA GAAATTTCA TTTGCACACT GATTGGCCC AGCATTCCTC GAGATCTC GTGGATGTC TCTTTGTTA CTTTGAACCT CTGTGTGCA GGACTGTCA TTGTATCAG TTACTCCAA ATTTACAGA TCACAAAGC ATCAAGGAAG AGGTCACCG TAAGCTGCTGCTACTCGGAG ACCCACCAGA TCCGCTGTC CCAGCAGGAC TTCGGCTCT TCCGACCCCT CTTCCTCTC ATGGTCTCCT TCTTCATCAT GTGGAGCCCC ATCATCATCA CCATCCTCT CATCTGATC CAGAACTCA AGCAAGACCT GGTCATCTGG CCGTCCCTCT TCTCTGGGT GGTCCTCTC ACATTGTCTA ATTCAGCCCT AAACCCCATC CTCTACAA CA TGACACTGTG CAGGAATGAG TGAAGAAA TTTTGTGTG CTTCTGGTC CCAGAAAAGG GAGCCATTTT AACAGACACA TGTGTCAAA GAAATGACTT GTCGATTAT TCTGGCTAAT TTTCTTTATA GCCGAGTTTC TCACACCTGG CGAGCTGTGG CATGCTTTA AACAGAGTTC ATTCCAGTA CCCTCCATCA GTGCACCCCTG CTTTAAAGAA ATGAACCTAT GCAAATAGAC ATCCACAGCG TCGGTAAAT AAGGGGTGAT CACCAAGTTT CATAATATT TCCCTTTATA AAAGGATTG TTGCCAGGT GCAGTGGTTC ATGCCTGTAA</p>	A	Homo sapiens

[illegible]

685	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	<p>ttatgtaac tggcaggtt ttaagaaca gttcagaac calgaattg ttittgaac alatalaa MSSNSSLLVA VQLCYANVNG SCVKPSPG SRVLYTVFG FGAVLAVFGN LLVMISLHF KQLHSPTNFL VASLACADEL VGVTVMPFSM VRTVESCWYF GRSFCTHTC CDVAFCYSSL FHLCFISDR YIAVTDPLVY PKFTVSVSG ICISVSWILP LMYSGAVFYT GUYDDGLEEL SDALNCIGGC QTVVNQNWVL TDFLSFFIPT FIMILYGNL FLVARRQAKK IENTGSKTES SSESYKARVA RRRKAAKTL GVTVAFMIS WLPYSIDSLI DAFMGFTPA CIYEICWCWA YNSAMNPLI YALFYPWFRK AIKVVITGVQV LKNSSATMNL FSEHI</p>	P	Homo sapiens
686	194958	Trace Amine Receptor 5 (TA5)	AF380193	<p>atgacagca attttccca accgttgtg cagcttgtc atgaggatg gaaaggatc tglattigaa ctcctatic tcttgggtcc cggglaaitc tglacagcc gtttagctt gggcttgtc tggctgtatt tggaaatc ttgaaaga cttctgtct tcaitttaag cagctgcaat cttcaacca ttctcatt gctcttgtc cctgtctga cttctgtga ggtgtgactg tgalgtctt cagcatggc aggacgggtgg agagctgtc gtaatttga gcaaatit gactctca cagttgtgt galgtggcat ttgttact tctgtctc cacttgtct tcatgtcat cgacaggatc atgtgtga ctgaltccct ggctatgct accaagttca cgtgtctgt gtcgggaatt tgcacagcg tgcctggat tctgcctc acgtacagcg gtcgtgtgt ctacacaggt gcaalgatc atgggctggga ggaaataga agtgcctca actgcgtagg tggctgtcaa attattgaa gtaaggctg ggtgtgata gatttttgt tattttcat acctacctt gtaatgaa ttctttacg taagtatt ctalagcta aacacagc taataaatt gaaactata gtagcaaat agaalalcc tcaagaggt ataaatcag agtggccaag agagagagga aagcagctaa aacctgggg gtcacggta tagcaattg tattcatg ttacctata cagtgtat attaatg gctttatgg gcttctgac cctgtctat atctatgaa tttgtgtg ggtgtctat taatacagc ccaatgctc ttgtattat gctctattt alcctgtgt taggaagcc alaaacta tttaagtg agatgtta aaggctagt cataacct tagttatt ttgaalaa</p>	A	Homo sapiens
687	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	<p>MTSNFSQPVV QLCYEDVNGS CIETPSPGS RVLYTAFSF GSLLA VFGNL LVMTSVLHFK QLHSPTNFLI ASLACADFLV GVTVMFLSMV RTVESCWYFG AKFCTLHSCC DVAFCYSSL HLCFCIDRY IVVTDPLVYA TKFTVSVSGI CISVSWILPL TYSGAVFYTG VNDDGLEELV SALNCVGGCQ IIVSQGWVLI DFLFFIPTL VMILYSKIF LIAKQQAIKI ETTSSKVESS SESYKIRVAK RERKAAKTLG VTVLAFVISW LPYTVDLID AFMGFLTPAY IYEICWCWSAY YNSAMNPLIY ALFYPWFRKA IKLILSGDVL KASSTISLF LE</p>	P	Homo sapiens
688	194989	MrgX4 G Protein-Coupled Receptor	AY042216	<p>tgcaggtct tctctctgt ccaatgaga cagctctag taacagaggt gtaacacca cctcttgtg taictgaatt cctccacctg aaagaaatt tcaagaccag gataagataa tcatgggtc caagccctg gccggatgag tgggggtgtg ttgactaa tgtttatccc atgtcagcac agaactgtg tggcagtaga gagaatgag gcttcagagt caacagaaac tggatttcaa acttgattg aggaaccca ccttggtaa gtagcttatt atctgcagc cttgtttt cttctttta aatgaggaca gtaaatcca tacggcaggg tggggggag aatcagagat gatacagctg gtagacat cttgttgtg ttccaggggg caccagacta gagttttga gcatgtatcc aactgtcca gcttcggta caaactgac aacataaac ggaagtggag agactcttg ctacaaicag acctgagct tcaagggtct gacgtgcatc atttccctg tgggactgac aggaagagcg gtagtctct ggctctggg ctacagcatg cgaggaagcg ctgtctcat ctacatctc aactgtggcg cagcagact cctctctc agcttcaga ttatgttc gcaatagc ctatcaala taagccatc catcagcaaa atctctgtt ctgtatgac ctctccat tttaaggcc tgaatgct gtagggccatc agcaacagcg gcgtgtgtc tgtctgtgg occatgtgt accgtgtccg ccggccaca cactgtcag cgtgtgtgtg tgtctgtctc tgggggtgt cctgtgtgt tagtagtctg gtagtggaggt tctgtgact cctgtttagt ggtgtgatt ctatgtgtg tgaacgtca gatttcatc cagtcgctg gctgtatt ttatgtgt tctgtgt ttcagccctg gctgtgtg tcaagatct ctgtgtatcc cggaaagatgc cgtgtacag gctgtacgtg accatctgc</p>	A	Homo sapiens

Homo sapiens

P

AAK91807.1

MrgX4 G
Protein-Coupled
Receptor

194989

689

tcacagtgct ggcttctctc ctctgcggcc tgcctctgg cctctgggg gccctaatit acaggatgca ccgaatttg gaagtctat
atgtcatgt ttaictgtt tgcctgtcc tgcctctct aaacagtagt gccacccca tcaattact cttcgtgggc tcttttaggc
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aaggtctca aaataatgt taticact gacagtgc gtttcaac algggaagca tagtctgac agtacaatgt ttgg
MDPTVPVFGT KLTPINGREE TPCYNQTLSTF TVLTCTISLV GLTGNNAVVLW
LLGYMRRNA VSIYLNLA ADFLFSFQI IRSPRLINI SHLRKILVS VMTPFYFTGL
SMLSALTER CLSVLWPIWY RCRPHTLSA VVCVLLWGLS LLFSMLEWRF
CDLFSGADS SWCETSDIFP VAWLFLCVV LCVSSLVLLV RILCGSRKMP
LTRLVVTILL TVLVFLLCGL PFGILGALY RMHLNLEVLVY CHVYLVCMSL
SSLNSSANPI IYFFVGSRQ RQNRQNLKLV LQRALQDKPE VDKGEGQLPE
ESLELSGSRLL GP

Homo sapiens

A

AF411111

G Protein-
Coupled Receptor
GPR82

195015

690

atgaacaaca alacaacatg taitcaaca tctatgatct ctccatggc ttacaacatc attaatoc tctttgtat tgttgtgt
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tgcctggcc agaagtagca cagaccccat tatattctt ttatagaca aaacattcaa gaagacacta tataatctct ttacaagtc
taattcagca calatgcaat calatgggt a

Homo sapiens

P

AAL26482

G Protein-
Coupled Receptor
GPR82

195015

691

MNNNTTCTIQP SMISSMALPI IYLLCIVGV FGNTLSQWIF LTKIGKKTST HIYLSHLVTA
NLLVCSAMPF MSYFLKGFQ WEYQSAQCRV VNFLGTLMSH ASMFVSLIL
SWIAISRYAT LMQDSSQET TSCYEKIFYG HLLKKFRQPN FARKLCYIW GVVLGIIIPV
TVYYSVIEAT EGEESLCYNR QMELGAMISQ IAGLIGTTFI GFSFLVVLTS
YYSFVSHLRK IRTCTSIMEK DLITYSSVKRH LLVIQILLIV CFLPYSIFKP IFYVLHQRDN
CQQLNYLIET KNILTCLASA RSSTDPIFL LLDKTFKKTL YNLFTKSNSA HMQSYG

SEQ ID NO:	LSID	Gene	Source ID	Sequence	Code	Species Name
1	127	5-HT1A Receptor	NM_000524	atggatgtgc tcagccctgg tcagggaac aaacacacat caccaccggc tccctttgag accggcgga acactactgg tatctccgac gtgaccgtca gctaccaagt gatcacctct ctgctgtgg gcagctcat ctctgcgcg gtgctggca atgcgtgctg ggtggtgccc atgccttgg agcctccct gcagaacgtg gccaatata ttattggctc ttggcggtc accgacctca tgggtgctgg ttggtgctg cccatggcgc cgtgtatca gttgctcaac aagtggacac tgggcccagg aacctgcgac ctgttcacgc cctcgacgt gctgtgctgc acctatcca tcttgacct gtgcgccatc gcgctggaca ggtactgggc catcacggac cccatcgact acgtgaacaa gaggaagccc cggccgcgtg cgctcatctc gctcacttgg cttattggct tctcatctc tatccgccc atcctgggct ggcgcacccc ggaagaccgc tcggaccccc acgcatgcac cattagcaag gatcatggct acactatcta tccacctt ggagctttct acatccgct gctgctcatg ctggttctct atggcgcat attccgagct gcgcgttcc gcatccgcaa gacggtcaaa aaggtggaga agaccggagc ggacaccgc catggagcat ctcccgccc gcagcccaag aagagtgtga atggagagtc ggggagcagg aactggaggc tggcgctgga gagcaaggct gggggtgctc tgtgcgcaa tggcgcggtg aggcaaggtg acgatggcg cgccttgag gtgacgagg tgcaccgagt ggcaactcc aaagagcact tgcctctgcc cagcgaggct ggtcctacc ctgtgcccc cgcctcttcc gagaggaaa atgagcgcaa cgcgagggc aagcgcaaga tggccctggc ccgagagagg aagacagtga agacgtggg catcatcatg ggcacctca tctctgtg gctgcccc ttcatcgctg ctctgttct gccctctgc gagagcagct tccacatgcc caccctgttg ggcgccataa tcaattggct gggctactcc aactctctc ttaacccgt catttacgca tacttcaaca aggactttca aaacggcttt aagaagatca ttaagtgtaa cttctgcgcg cagtga	A	Homo sapiens
2	127	5-HT1A Receptor	NP_000515.1	MDVSPGQGN NTTSPAPFE TGGNTTGISD VTVSYQVITS LLLGTLIFCA VLGNACVVAA IALERSIQNV ANYLIGSLAV TDLMSVLVL PMAALYQVLN KWTLGQVTCD LFIALDVLCC TSSILHLCAI ALDRYWAITD PIDYVNRTP RPRALISLTW LIGFLISIPP ILGWRTPEDR SDPDACTISK DHGYTIYSTF GAFYIPLILM LVLYGRIFRA ARFIRKTVK KVEKTGADTR HGASPAQPK KSVNGESGR NWRLGVESKA GGALCANGAV RQDDGGALE VIEVHRVGN KEHLPLPSEA GTPCAPASF ERKNERNAEA KRKMALARER KTVKTLGIM GTFILCWLPF FIVALVLPFC ESSCHMPTLL GAIINWLGYNS NSLLNPVIYA YFNKDFQNAF KKIICKNFCR Q	P	Homo sapiens
3	128	5-HT1B Receptor	NM_000863	atggaggaaac cgggtgtgctca gtgcgctcca cgcgcgcgcg cgggctccga gacctgggtt cctcaaggcca acttatctc tctctctcc caaactctcc gcgccaagga ctacatttac caggactcca tctcctacc ctggaagta ctgctgtgta tgcattggc gctcatcac ttggccacca cgtctccaa tgcctttgtg attgccacag tgaccggac ccggaactg cacaccccg ctaactact gatgcctct ctggcggtca cgcacctgct tgtgtccatc ctggtgatgc ccatacagc catgtacact gtcacggcc gctggacact gggccagggtg gtctgtgact tctggctgtc gtcggacatc acttgttcca ctgcctccat cctgcacctc tgtgtcatcg cctgggaccg ctactggcc atcacggagc ccgtggagta ctacgtataa aggactccca agaggggcggc ggtcatgac gcgctgtgtg ggtctcttc catctctatc	A	Homo sapiens

4	128	5-HT1B Receptor	NP_000854.1	<p>tcgctgccgc ccttcttctg gcgtcaggct aaggccgaag aggagggtgtc ggaatgcgtg gtgaacacg accacatcct ctacacggtc tactcacgg tgggtgcttt ctactcccc acctgctcc tcatgacct ctatggccgc atctacgtag aagcccgctc ccggattttg aaacagacgc ccaacaggac cggcaagcgc ttgaccggag ccagctgat aaccgactcc ccgggtcca cgtctcggt cactctatt aactcgggg tccccagct gccagcgaa tcgggatctc ctgtgtatgt gaaccaagtc aaagtgcgag tctccgacgc cctgctggaa aagaagaaac tcatggccgc tagggagcgc aaagccacca agaccctagg gatcattttg ggagccttta ttgtgtgtg gctacccttc ttcatcatct ccctagttag gcctatctgc aaagatgcct gctggttcca cctagccatc tttagctct tcacatggct gggctatctc aactccctca tcaaccccat aatctatacc atgtccaatg aggactttaa acaagcattc cataaactga tacgttttaa gtgcacaagt tga</p> <p>LATLSNAFV IATVYTRKL HTPANYLIAS LAVTDLVSI LVMPISTMYT VTGRWTLGQV VCDFWLSSDI TCCTASILHL CVIALDRYWA ITDAVEYSK RTPKRAAVMI ALVWVFSISI SLPPFFWRQA KAEVEVSECV VNTDHLTYV YSTVGAFYFP TLLILALYGR IYVEARSRII KQTPNRTGKR LTRAQLITDS PGSTSSVTSI NSRVPDPSE SGSPVYNQV KRVSDALLE KKKLMAARER KATKTLGILL GAFIVCWLPF FIISLVMPIK KDACWFHLAI FDFFTWLGYL NSLINPIYT MSNEDEKQAF HKLIRFKCTS</p>	Homo sapiens
5	129	5-HT1D Receptor	NM_000864	<p>agccaaatgt gtggaggtct gtgggaagag agagccacct agcatgtccc cactgaacca A gtcagcagaa ggcctcccc aggagccctc caacagatcc ctgaatgcc cagaaacctc agagcttgg gatccagga cctccaggc tccctagtc tccctggcg tggctcttc cgtcatcaca cgtgccacag tcctctccaa tcctcttcta tcaccacca tcttactcac caggaagctc cacacccctg ccaactacct gatggctcc ctggccacca cggacctctt ggtttccatc ttggtaatgc ccatacgat cgcctatacc atcacccaca cctggaaactt tgcccaaatc ttgtgtgaca tctggctgtc ctctgacatc acgtgctgca cagcctccat cctgcatctc tgtgtcatg ctctggacag gtactgggca atcacagatg ccctggaaata cagtaaacgc aggaacgctg gccacgccc caccatgatc gccattgtct gggccatctc catctgcac tcacatcccc cgtctctctg gcggcaggcc aagggccagg aggagatgtc ggactgtctg gtgaacacct ctcatatctc ctacaccat tactccacct gtgggacctt ctacattccc tcggtgtgtc tcatcatct atatggccgg atctaccggg ctgcccggaa ccgcatctcg aatccacct cactctatgg gaagcgttc accacggccc acctcatcac aggctctgcc gggtctctgc tctgctcgct caactccagc ctccatgagg ggcactcgca ctcggctggc tccccctct ttttcaacca cgtgaaaaatc aagcttgctg acagtgcctt ggaaacgaag aggattctg ctgctcgaga aaggaaagcc actaaaatcc tgggcatcat tctgggggccc tttatcatct gctggtctgc ctctctctg gtgtctctg tcttccccat ctgcccggac tcctgctgga tccacccggc gctctttgac tctttcacct ggtaggcta tttaaaactc ctcatcaat caataatcta cactgtgttt aatgaagat ttcggcaagc ttttcagaaa attgtccctt tccggaagcc ctcctagtct tattcgatga ggtaaagaaa TTLILTRKLH TPANYLGSL ATTDLLVSI LMPISIAVYI THTWNFGQIL CDIWLSSDIT CCTASILHLC VIALDRYWA I TDALEYSKRR TAGHAATMIA IVWAISICIS IPPLFWRQAK</p>	Homo sapiens
6	129	5-HT1D Receptor	NP_000855.1	<p>MSPLNQSAEG LPQEAENRSL NATETSEAWD PRTLOALKIS LAVLSVITL ATVLSNAFVL P TTLILTRKLH TPANYLGSL ATTDLLVSI LMPISIAVYI THTWNFGQIL CDIWLSSDIT CCTASILHLC VIALDRYWA I TDALEYSKRR TAGHAATMIA IVWAISICIS IPPLFWRQAK</p>	Homo sapiens

7	130	5-HT1E Receptor	NM_000865	<p> AQEEMSDCLV NTSQISYTIY STCGAFYIPS VLLIILYGR IYRAARNRIILN PPSLYGKRF TAHLITGSAG SSLCSLNSSL HEGHSHSAGS PLFFNHVKIK LADSALERKR ISAARERKAT KILGIILGAF IICWLPEFV SLVLPICRDS CWIHPALDFE FTWLGYLNSL INPIIYTVFN EEFRQAFQKI VPERKAS atcgaatgtt gagagaagca gtgctctgat ccagctcagg agaaaaagga gcgggttccg A agtgagactt ctggagccag ctggacgtgc cggtttggcc agtgcggcg gcgtgcacgc accgtccaca agactctcag tcgcccaggc tggagtgag cagcacagtc tccactcatt gaaacctccg cctcccgggt tcgcgggttc tcgcctcag cctcctagta gctgggattg caggcaactca ccaccatgcc cggctaattt ttgaattt tagtggagac gggatttcac catgttggcc atgctggtct tgaacccccg acctcggatg attcgccgcg ctcgccctcc caaagtgcgt gaattacagg cgaaccttca ctcagaagaa atgctgtggc ccttcccttt accaacagaa aatggaacac aagagaccac atagctgaac aaattatagc ctccctacaa gtgagaaacc ttcgaggcta catagttttc agccaaagga aaataacca cagcttctcc acagtgtaga ctgaacaag ggaacatga acatcacaaa ctgtaccaca gaggccagca tggctataag acccaagacc atcactgaga agatgctcat ttgcatgact ttggtgtgca tcaccacct caccacgttg ctgaacttgg ctgtgatcat ggctattggc accaccaaga agctccacca gctgccaac tacctaattc gttctctggc cgtgacggac ctctggttg cagtgcctgt catgccccg agcatcatct acattgtcat ggtcgtcgtg aagcttgggt acctctctgt tgaggtgttg ctgagtggtg acatgacctg ctgcacctg tccatctcc acctctgtgt catgccccg gacaggtact ggccactac caatgctatt gaatacgca ggaagaggac ggccaagagg gcgcgctga tgactcttac cgtctggacc atctccattt tcactccat gcccccctctg ttctggagaa gccaccgccc cctaagccct cccctagtc agtgcacct ccagcacgac catgttatct acaccattt ctccacgtg ggtgcgtttt atatccccctt gactttgata ctgattctct attaccggt ttaccacgag gccaaagacc ttaccagaa aaggggatca agtcggcact taagcaacag aagcacagat agccagaatt ctttgcgaag ttgtaaactt acacagactt tctgtgtgtc tgacttctcc acctcagacc ctaccacaga gtttgaaaaag ttccatgctt ccatcaggat ccccccttc gacaatgac tagatcacc aggagaacgt cagcagatct ctgacaccag ggaacggaag gcagcacgca tcctggggct gattctgggt gcattcatct tatcctggct gccattttt atcaaaagat tgatttggg tctgagcact tacaccgtgt cctcggaagt ggccgacttt ctgacgtggc tcggttatgt gaattctctg atcaacctc tgctctatc gagttttaat gaagacttta agctggcttt taaaaagctc attagatgcc gagagcatac ttgactgta aaaagctaaa aggcacgact ttttccagag cctcatgagt ggatgggggt aaggggtgca acttattaat tctgaaacat acttggttca ggagagtttg taagtattg tggtctgtt tccctgtttg ttgtttgtt ttgttctgt ttgttggagg attgttattt ggctgtgtt tttctacctc tggctttatc tgtgatacat aatttcaaat aaactattat atacaaaac aaaaaaaa aaaaaaaa </p>	Homo sapiens
8	130	5-HT1E Receptor	NP_000856.1	<p> MNITNCTEA SMAIRPKTIT EKMLICMTLV VITLTLLN LAVIMAIGTT KKLHQPNYL P ICSLAVTDLL VAVLVMPLSI IYIVMDRWKL GYFLCEVWLS VDMTCCTCSI LHLCVIALDR YWAITNAIEY ARKRTAKRAA LMILTWTIS IFISMPPLFW RSHRRLSPPP SQCTIQHDHV IYTIYSTLGA FYIPLTLILI LYRIYHAAK SLYQKRGSSR HLSNRSTDSQ NSFASCKLTQ </p>	Homo sapiens

9	131	5-HT1F Receptor	NM_000866	<p>TFCVSDSTST DPTTEFEKFEH ASIRIPPFDN DLDPGERQOQ ISSTRERKAA RILGLILGAF ILSWLPFFFIK ELIVGLSIYT VSSEVADFLT WLGYVNSLIN PLYTSEFNEF FKLAFFKKLIR CREHT</p> <p>atggatttct taaattcatc tgatcaaaac ttgacctcag aggaactgtt aaacagaatg A ccatccaaaa ttctggtgtc cctcaactgtg tctgggctgg cactgatgac acaactatc aactcccttg tgatcgctgc aattattgtg acccggaagc tgcaccatcc agccaattat ttaaatttgtt ccttgccagt cacagatttt ccttggtgtg tcttggtgat gcccttcagc attgtgtata ttgtgagaga gagctggatt atggggcaag tggctgtga catttggctg agtgttgaca ttacctgtcg cacgtgctcc atcttgcatc tctcagctat agctttggat cggtatcgag caatcacaga tgctgttgag tatgccaga aaaggactcc aaagcatgct ggcattatga ttacaatagt ttggattata tctgttttta tctctatgcc tctctattc tggaggcacc aaggaaactag cagagatgat gaatgcatca tcaagcacga ccacattgtt tccaccattt actcaacatt tggagcttcc tacatccac tggcattgat ttgatcctt tactacaaaa tatatagagc agcaaaagaca tatataccac agagacaaag aagtaggatt gcaaaggagg aggtgaatgg ccaagtcctt ttggagagtg gtgagaaaag cactaaatca gtttccacat cctatgtact agaaaagtct ttatctgacc catcaacaga ctttgataaa attcatagca cagtgaagag tctcaggtct gaattcaagc atgagaaatc ttggagaagg caaaagatct caggtacaag agaacggaaa gcagccacta ccctgggatt aatcttgggt gcatttgtaa tatgttggtc tctttttttt gtaaaagat tagttgttaa tgcctgtgac aaatgtaaaa tttctgaaga aatgtccaat ttttggcat ggcttgggta tctcaattcc cttataaatc cactgattta cacaatcctt aatgaagact tcaagaaaag attccaaaaa cttggcgat gtcgatgtta g</p>	Homo sapiens
10	131	5-HT1F Receptor	NP_000857.1	<p>MDFLNSDQN LTSEELNRM PSKILVSITL SGLALMTTII NSLVIAAIIV TRKLHPANY P LICSLAVTDF LVAVLNPFS IVYIVRESWI MGQVVCIDIW SVDITCCTCS ILHLSAIALD RYRAITDAVE YARKRTPKHA GIMITIVWII SVFISMPPLF WRHQGTSRDD ECIKHDHIV STIYSTFGAF YIPLALIL IL YKIYRAAKT LYHKRQASRI AKEEVNGQVL LESGERSTKS VSTSYVLEKS LSDPSTDFDK IHSTVRSIRS EFKHEKSWRR QKISGTREK AATTLGLILG AFVICWLFFF VKELVNVCD KCKISEMSN FLAWLGYLNS LINPLIYTF NEDEKKAFOK LVRRCR</p>	Homo sapiens
11	132	5-HT2A Receptor	NM_000621	<p>gaattcgggt gagccagctc cgggagaaca gcatgtacac cagcctcagt gttacagagt A gtgggtacat caagtgtaat ggtgagcaga aactataacc tgttagtctt tctacacctc atctgctaca agttctggt tagacatgga tattctttgt gaagaaaaata cttctttgag ctcaactacg aactccctaa tgcaattaaa tgatgacacc aggtcttaca gtaatgactt taactctgga gaagctaaca cttctgatgc atttaactgg acagtgcact ctgaaaaatcg aaccacctt tctgtgaag ggtgcctctc accgtcggt ctctccttac ttcattctcca ggaaaaaac tggctgctt tactgacagc cgtagtgtt attctaacta ttgctggaaa catactgctc atcatggcag tgtccctaga gaaaaagctg cagaatgcca ccaactattt cctgatgtca cttgccatag ctgatatgct gctgggttct cttgtcatgc ccgtgtccat gttaaccatc ctgtatgggt accggtggcc tctgcccagc aagctttgtg cagtctggat ttacctggac gtgctcttct ccacggcctc catcatgeac ctctgcgcca tctcgtgga ccgctacgtc gccatccaga atcccatcca ccacagcgc tccaactcca gaactaaggc</p>	Homo sapiens

12	5-HT2A Receptor	NP_000612.1	MDILCENTS LSSTNSLMQ LNDTRLYSN DFNSGEANTS DAFNWTVDSE NRTNLSCEG P	Homo sapiens
132			LSPSCLSLLH LQEKNSALL TAVVIILTIA GNILVIMAVS LEKKLQNATN YFLMSLAID	
			atttctgaaa atcattgtctg tttagaccat atcagtaggt ataccatgc caataccagt ctttgggcta caggacgatt cgaagtcctt taaggagggg agttgcttac tcgccgatga taactttgtc ctgacgggt cttttgtgtc atttttcatt ccttaacca tcatggtgat cacctacttt ctaactatca agtcactcca gaaagaagct actttgtgtg taagtgatct tgccacacgg gccaaattag cttctttcag gctctccct cagagttctt tgtcttcaga aaagtcttc cagcggtcga tccataggga gccagggtcc tacacagga ggaggactat gcagtcctac agcaatgagc aaaggcagc caagggtgct ggcacgtctt tcttcctgtt tgtgtgtgat tgggtgacct tcttcacac aaacatcatg gccgtcatct gcaagagctc ctgcaatgag gatgtcattg gggtccctgt caatgtgttt gttggatcg gttatctctc ttcagcagtc aacctcag tctacacact gttcaacaag acctataggt cagccttttc acggtatatt cagtgtcagt acaaggaaaa caaaaaacca ttgcagttaa ttttagtgaa cacaataccg gctttggcct acaagtcctag ccaacttcaa atgggacaaa aaagaatttc aaagcaagat gccaaagcaa cagataatga ctgtcctatg gttgctctag gaaagcagca ttctgaagag gcttctaagg acaatagcga cggagtgagt gaaaagtgga cctgtgtgtg ataggctagt tgccgtggca actgtggaag gcacactgag caagttttca cctatctgga aaaaaaaat atgagattgg aaaaaattag acaagtcctag tggaaccaac gatcatatct gtatgcctca ttttattctg tcaatgaaaa gcgggggttca atgctacaaa atgtgtgtctt ggaaaaatgt ctgacagcat ttccagctgtg agctttctga tacttattta taacattgta aatgatattg ctttaaatg attcactttt attgtataat ttgtaagccc taagtaaatc taaatctact tctattttca agtggaaacc ttgctgtctat cgtgttctat gatgacatgg gattgagttg gttacctatt gccgtaaata aaaaatagta taaatagta aaattttatt gaatataatg gcctcttaaa aattatctt aaaaacttact atggtatata ttttgaagg agaaaaaaa aaagccacta aggtcagtg taaaaatct gtattgtctaa gataattaaa tgaataactt gacaacattt ttcatagata ccattttgaa atattcacia ggttgcctggc atttgcctga tttcaagtta attctcagaa gtgaaaaaga cttcaaatgt tattcaataa ctattgtgc tttctcttct acttctgtg ctttactctg aatttccagt ttggtcttgt ttaatatattg ttctcttagg taaactagca aaaggatgat ttaacattac caaatgcctt tctagcaatt gcttctctaa aacagcacta tcgaggtatt tggtaacttg ctgtgaaatg actgcatcat gcatgcactc ttttgagcag taaatgtata ttgatgtaac tgtgtcagga ttgagatga actcaggttt ccggctactg acagtggttag agtccctagga catctctgta aaaagcaggt gactttccta tgacactcat caggtaaact gatgctttca gatccatcgg tttatactat ttattaaaac cattctgctt ggttccacaa tcatctattg agtgtacatt tatgtgtgaa gcaaatctct agatatgaga aatataaaaa taataaaaac aaatccttg ccttcaaacg aaatggctcg gccaggcacg gagggtctg catgtaatcc tagcaccttg ggaggtgag atgggaggat cacttgaggc caagagtttg agaccaacct ggttaacaaa gtgagacctc cctgtctcta caaaaaaat caaaaaatta tctgatcctt gtggcacaca actgtgttcc cagctacagg ggaggtgag acggaaggt cacttgagcc cagaagctca aggctgcagt gagccaagtt cacaccactg ccatttctc ctgggcaaca gagtgaagcc ctatccccc gaattc	

13	5-HT2B Receptor	NM_000867	<p>MLLGLVMPV SMLTILYGR WPLPSKLCV WYILDVLEST ASIMHLCAS LDRYVAIQNP IHHSRENSRT KAFLKIIVW TISVGISMPI PVFGLQDDSK VFKEGSCLLA DDNFVLIGSF VSFFIPLTIM VITYFLTIKS LQKEATLCVS DLGTRAKLAS FSFLPQSSLS SEKLFQRSIH REPGSYTGRR TMOISISNEQK ACKVLGIVFF LFVVMWCPFF ITNIMAVICK ESCNEDVIGA LLNVFWIGY LSSAVNPLVY TLENKTYRSA FSRYYQSQYK ENKKPLQLIL VNTIPALAYK SSQLQMGQKK NSKQDAKTD NDCSMVALGK QHSEAEKDN SDGVNEKVSC V</p> <p>tactaaccat gctgaccact gttcgggaacg ggattgaatc acagaaaaac agcaaatggc A tctctcttac agagtgtctg aacttcaag cacaattcct gagcacattt tgcagagcac ctttgttcaac gttatctctt ctaactgggtc tggattacag acagaaatcaa taccagagga aatgaaacag attgttgagg aacagggaac taaactggac tgggcagctc tttcgatact catgggtgata ataccacaa ttggtggaaa taccctgtt attctggctg tttcactgga gaagaagctg cagtatgcta ctaattactt tctaattgcc ttggcgggtg ctgatttgc ggttggattg tttgtgatgc caattgccct attgacaata atgtttgagg ctatgtggcc cctccactt gttctatgct ctgctgggtt atttcttgac gttctctttt caaccgcac catcatgcat ctctgtgcca tttcagtggg tctgtacata gccatcaaaa agccaatcca ggccaatcaa tataactcac gggtcacagc attcatcaag attacagtgg tgtgggttaat ttcaataggc attgccattc cagtcctat taaagggata gagactgatg tggacaaccc aaacaatc acttgtgtgc tgacaaagga acgttttggc gatttcacgc tctttggctc actggctgcc tcttcacac ctcttgcaat tatgattgc acctacttc tcaatctca tgctttacag aagaaggctt acttagtcaa aaacaagcca cctcaacgcc taacatgggt gactgtgtct acagtttcc aaagggtga aacacctgc tctgcacgg aaaggtggc aatgctggat ggtctcga aaggacaagg tctgcccac tcaggtgatg aaacacttat gcgaagaaca tccacaattg ggaanaagtc agtgcagac atttccaag acagagagc ctcaaggctc ctagggatg tgttttctc ttttttctt atgtgtgtc cttctttat tacaatatata actttagttt tatgtgattc ctgtaaccaa actactctcc aatgctcct ggagataatt gtgtggatag gctatgttc ctgaggagt aatcctttg tctacacct cttcaataag acatttcggg atgcatttg ccgataatc acctgcaat accgggccac aaagtcagta aaaaacttca gaaaacgctc cagtaagatc tacttccgga atccaatggc agagaactct aagtttttca agaaacatgg aattcgaat gggattaacc ctgccatgta ccagagtcca atgaggctcc gaagttcaac cattcagttc tcatcaatca tctactaga tacgtctctc ctcaactgaa atgaaggatg caaaactgaa gagcaagta gttatgtata gcagaactgg cagttgtcat caacataat gatgagtaag atgatgaatg agatgtaaat gtgccagaa tatattatat aaagaatttt atgtcatata tcaaatcatc tctttaacct aagatgtaag tattaagaat atctaatttt cctaattgg acagattat tccatgagga aaataatttt atatagctac aaatgaaaac atccagcac tctgggttaaa ttttaagta ttcgaatgaa ataaagtcaa atcaataat ttcaggctt aaaaaaaa</p>	Homo sapiens
14	5-HT2B Receptor	NP_000858.1	<p>MALSYRVSEL QSTIPEHIQ STFVHVSSN WSGLQTESIP EEMKQIVEEQ GNKLHWAALL P ILMVIPTIG GNTLVILAVS LEKKLQYATN YFLMSLAVAD LLVGLFVMPI ALLTIMFEAM WPLPLVLCPA WLFLDVLFT ASIMHLCAS VDRYIAIKP IQANQYNSRA TAFIKITVVW LISIGIAIPV PIKGIETDND NPNNITCVLT KERFGDFMLF GSLAAFFPL AIMIVTYFLT IHALQKKAYL VKNKPPQRLT WLTVSTVFQR DETPCSSPEK VAMLDGSRKD KALPNSGDET</p>	Homo sapiens

15	134	5-HT2C Receptor	nm_000868	LMRRSTIGK KSVQTISNEQ RASKVLGIVF FLFLMPCPF FITNITLVL DSCNQTIQIM LLEIFWIGY VSSGVNPLVY TLENKTRDA FGRTYTCNRYR ATKSVKTLRK RSSKIYFRNP MAENSKFFFKK HGIRGINPA MYQSPMRLRS STIQSSSII LDTLLITENE GDKTEEQVSY V	accgcgcga ggtaggcgct ctggtgcttg cggagagcgc ttcttctc agatgcaccg A atcttcccga tactgccttt ggagcgcta gattgtagc ctggtctgct cattggcct gccttgcccc ttacctgccg attgcctatg aactctctt ctgctcttac atcgttgctg tcggagtcgt cgcgatcgtc gtggcgctcg tgtgatggcc ttgctcgtt tagagtgtg tagttagtta ggggccaacg aagaagaaag aagacgcgat tagtgcagag atgctggagg tggtcagtta ctaagctaga gtaagatagc ggagcgaata gagccaaacc tagccggggg ggcgcaggtc acccaaggga ggtcgactcg ccggcgcttc ctatcgccg gagctccctc cattctctc cctcgcgcga ggcgcgaggt tgcggcgccg agcgagcgc agctcagcgc accgactgcc gcgggctccg ctgggcgatt gcagcgcagt cggttctcg tctagctgcc gcgcggcgga ccgctgcctg gtcttctcc cggacgctag tgggttatca gtaaacacc gcgagcatct ataacatagg ccaactgacg ccctctctca aaaaacta aaggatgata tgatgaacct agcctgttaa ttctgtctt tcaatttaa acttgggtg ctaagactg aagcaatcat ggtgaacctg aggaatgcgg tgcattcatt ccttggtcac ctaattggcc tattggttg gcaatgtgat atttcttga gccagtagc agctatagta actgacattt tcaatacctc cgatggtgga cgcttcaaat tcccagcgg ggtacaaac tggccagcac tttcaatcgt catcataata atcatgacaa taggtggcaa tctcttctg atcatggcag taagcatgga aagaactg cacaatgcca caattactt cttaattgcc ctgaccattg ctgatatgct agtgggacta ctgttcacg ccctctctc cctggcaatc ctttatgatt atgtctggcc actacataga tattgtgct cctgtgctg ttcttttagt gttttattt caacagcgtc catcatgcac ctctgcgcta tatgcttga tcggtatgta gcaatacgt atcctattga gcatagccgt ttcaattcgc ggaactaagg catcatgaag attgctattg tttgggcaat ttctataggt gtatcagttc ctatccctgt gattggactg agggacgaag aaaagtggt cgtgaacac acgacgtgcg tgcacacga ccaaatctt gttcttattg ggtccttctg agcttctctc ataccgtga cgattatggt gattacgtat tgcctgacca tctacgttct gcgcgcgaca gctttgatgt tactgcagg ccacaccg gaaccgcctg gactaagtct ggatttctg aagtgtcga agaggaatc ggccgagga gagaactctg caaacctaa ccaagaccg aacgcacgc gaagaaaga agccttgagg agtcttctt gcaccaatga ggtatcaac aatgaagaa agcttcgaa agtcttgagg attgttttct ttgtgtttct gatcatgtg tgcctattt tctattacca tttctgtct gttcttctg agaagtctg taaccaaa agctgtgaa agcttctgaa tgtgttctg tggattggct atgtttgtc agaatcaat cctctgtgt atactctgt caacaaat taccgaagg cattctcaa ctatttctg tgcaattata agtagagaa aaagcctctt tcagggcaga ttccaagagt tgcgcact gcttctgtg ggaggagct taatgttaac atttatcgc ataccaatga accgtgatc gaaaaagca gtgacaaat gcccgtata gagatgcaag ttgagaattt agagtacca gtaaatcct ccagtggtg tagcgaaagg attagcagt tgtgagaaag aacagcacg tcttttctta cggtaacaag tacatatgta gaaaaattt cttctttaat ttttctgtg gtcttaacta atgtaaatat tgctgtctga aaagtgtt	Homo sapiens
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16	134	5-HT2C Receptor	NP_000859.1	ctaatctctg tatgttatcc actacaggtt ttatgagact tcctattaat ttattaaat tattaaatg tgaaaaaaa aaaaaaaa aaaa VIIIINTIGG NIVLMAVSM EKKLNATNY FLMSLAADM AAIVTDIFNT SDGGRFKFPD GVQNPALSI P PLPRYICPVW ISLDVLFSTA SIMHLCAISL DRYVAIRNPI EHSRFSRTHK LAILLYDYVW ISIGVSVPIP VIGLRDEEKV FVNITTCVLN DNFVPLTISF VAFFIPITIM VITYCLTIYV LRRQALMLLH GHTEEPPLGLS LDFLKCCKRN TAEENSANP NQDQARRRK KKERRPRGTM QAINNERKAS KVLGIVFVF LIMWCPFFIT NILSVLCEKS CNQKLMKILL NVFVWIGYVC SGINPLVYTL FNKIYRRAFS NYLRONYKVE KKPPVROQIPR VAATALSGRE LNVNIYRHTN EPVIEKASDN EPGIEMQVEN LELPVNPSSV VSERISSV cgggtgcttat ttcctgtaat ggacaaactt gatgctaag tgagttctga ggagggtttc A gggtcagtg gaaaggtggt gctgctcacg ttctctcga cggttatcct gatggccatc ttggggaacc tgcgtgtgat ggtggctgtg tgcgtggaca ggcagctcag gaaaataaaa acaaattatt tcattgtatc tcttgctttt gcggaactgc tggtttcggt gctggtgatg ccctttggtg ccattgagct ggttcaagac atctgattt atggggaggt gttttgctt gttcgacat ctctggacgt cctgctcaca acggcatcga ttttccact gtgctgcatt tctctggata ggtattacgc catctgctgc cagcctttgg tctatagaa caagatgacc cctctgcgca tcgcattaat gctgggagc tgcgtgggtca tccccacgtt tatttctttt ctccctataa tgcaaggctg gaataacatt ggcataatg attgataa aaagaggag ttcaaccaga actctaactc tacgtactgt tctctcactg tcaacaagcc ctacgccatc acctgctctg tgggtgcctt ctacatccca ttctctcctca tgggtctgca ctattaccg atctatgtca cagctaagga gcagtcacct cagatccaga tgttacaacg ggcaggagcc tcctccgaga gcaggcctca gtcggcagac cagcatagca ctcatcgcat gaggacagag accaaagcag ccaagacctt gtgcatactc atgggttgct tctgctctg ctgggacca ttctttgtca ccaatattgt ggatcccttc atagactaca ctgtccctgg gcagggtggtg actgctttcc tctggctcgg ctataatca tccgggttga acccttttct ctacgccctc ttgaataagt cttttagacg tgcctctcctc atcatcctct gctgtgatga tgagcgtac cgaagacctt ccattctggg ccagactgtc ccttgttcaa ccacaacct taatggatcc acacatgtac taagggatgc agtggagtgt ggtggccagt gggagagta gtgtcacccg ccagcaactt ctctttggt ggctgctcag ccagtgaca cttaggccc tgggacaatg accagaaga cagccatgcc tccgaagag ggcaggtcc taagctgctg cttgtgcgcg actgcacccg gcattctctt cacctgagc tttccgctcg ccagtgcag aacccggtgc tcgctggg	Homo sapiens
17	136	5-HT4 Receptor	NM_000870	LMAILGNLLV MVAVCWDRQL RKIKTNYFIV P VFCIVRTSLD VLLTTASIFH LCCISLDTRY FISFLPIMQG WNNIGIIDLI EKRKFQNSN FYIFLLMVL AYRIYVAK EHAHQIOMLQ LCIIMGCFCL CWAPFFVTNI VDPFIDYTPV RAFLIILCOD DERYRRPSIL GQTVPCSTTT QCHPPATSPV VAAQPSDT cccagagcgcg cccattcacc cccctcacc accctcccg gttccactt ccccgactc A	Homo sapiens
18	136	5-HT4 Receptor	NP_000861.1	MDKLDANVSS EEEGFSVEKV VLLTFLSTVI LVQDIWIYGE VFCIVRTSLD VLLTTASIFH LCCISLDTRY NKMTPRLAL MLGCGWIPT FISFLPIMQG WNNIGIIDLI EKRKFQNSN PYAITCSVVA FYIFLLMVL AYRIYVAK EHAHQIOMLQ MRTETKRAKT LCIIMGCFCL CWAPFFVTNI VDPFIDYTPV LYAFLNKSFR RAFLIILCOD DERYRRPSIL GQTVPCSTTT QCHPPATSPV VAAQPSDT cccagagcgcg cccattcacc cccctcacc accctcccg gttccactt ccccgactc A	Homo sapiens
19	138	5-HT6	NM_000871		Homo

21	139	5-HT7 Receptor	NM_000872	<p>ccatgggagc cggcacacgg cggcgcatg atggacatga acagcagcg cgcggcgac A</p> <p>ctctacgggc acctcgctc ttctctctg ccagaagtgg ggcgcgggt gcccgactg</p> <p>agccccagc gtggcgccga ccggcgcg gctctctgg gcgcgaact gctgagcag</p> <p>gtgacagcca gccggcgcc cactgggac gcgcccccg acaatgcctc cggctgtggg</p> <p>gaacagatca actacggcag agtcgagaa gtgtgatcg gctccatct gacgtcatc</p> <p>acgtgctga cgatcgcggt caactgcctg gtgtgatct cgtgtgctt gtcgaagaa</p> <p>ctccggcagc cctccaaacta cctgatcgtg tccctggcg tgcccgacct cctcgtgggt</p> <p>gtggcggtca tgcctctctg cagcgtcacc gacctcatg ggggcaagt gatctttgga</p> <p>cacttttct gtaatgtctt catcgccatg gacgtcatgt gctgcacggc ctcgatcatg</p> <p>acctgtgcg tgatcagcat tgacaggtac cttgggatca caagcccc cacaacct</p> <p>gtgaggcaga atgggaaatg catggcgaa atgattctt cgtctggt tctctccgc</p> <p>tccatcacct tacctcact ctttgatgg gctcagaatg taaatgatga taaggtgtgc</p> <p>ttgatcagcc aggaatttgg ctatacgatt tactctacc cagtggcatt ttatatcccc</p> <p>atgtccgtca tgcctttcat gtactaccag atttacaagg ctgccagaa gagtgtgct</p> <p>aaacacaagt ttctctgctt cctcgtgagtg gagccagaca cgtcatcgc cctgaatggc</p> <p>atagtgaagc tccagaagga ggtggaagtg tgtgcaaac ttctgagact cctcaagcat</p> <p>gaaaggaaaa acatctccat ctttaagcga gaacagaaag cagccaccac cctggggatc</p> <p>atcgtcgggg cctttaccgt gtgctggctg ccatttttcc tctctcgac agccagaccc</p> <p>ttcatctgtg gcaactctct cagctgcac cactgtggg tggagaggac attctgtgg</p> <p>ctaggctatg caaactctct cattaacct tttatatatg cctcttcaa ccgggacctg</p> <p>aggaccacct atcgcagcct gctccagtc cagtacggga atatcaacc gaagctctca</p> <p>gctgcaggca tgcataagc cctgaagctt gctgagaggc cagagagacc tgagtgtgtg</p> <p>ctacaaaaatg ctgactactg tagaaaaaa ggtcatgatt catgatgaa agcagaacaa</p> <p>tgag</p>	Homo sapiens
22	139	5-HT7 Receptor	NP_000863.1	<p>MMDVNSSGRP DLYGHLRSFL LPEVGRGLPD LSPDGGADPV AGSWAPHLLS EVTASPAPTW P</p> <p>DAPPDNASGC GEQINYGRVE KVVIGSIITL ITLLTIAGNC LVVISVCFVK KLRQPSNYLI</p> <p>VSLALADLSV AVAVMPFVSV TDLIGGKWF GHFFCNVFA MDVMCCTASI MTLCVISIDR</p> <p>YLGITRPLTY PVRQNGKMA KMILSVWLLS ASITLPLFG WAQNVNDDKV CLISQDFGYT</p> <p>IYSTAVAFYI PMSVLMFMY QIYKAARKSA AKHKFPGFPR VEPDSVIALN GIVKLQKEVE</p> <p>ECANLSRLK HERKNISIFK REQKAATLG IIVGAFVW LPFFLLSTAR PFICGTSCSC</p> <p>IPLWVERTEL WLGYANSLIN PFIYAFNRD LRTTYRSLQ CQYRNINRKL SAAGMHEALK</p> <p>LAERPERPEF VLQNADYCRK KGHDS</p> <p>atgagtgatca gaagtgtgaa ggtgtcctgt tctgaatccc agagcctctt ctcctctgt A</p> <p>gaggtcggca ggtgaggaag ggtttaacct cactgcaagg aatccctgga gctagcggt</p> <p>gctgaaggcg tcgagtggtg gggcacttg gacagaaacg tcaggcagcc gggagctctg</p> <p>ccagcttttg tgaccttgg cgggctggg agcgtctggg cgggagccgg aggactatga</p> <p>gctgcgcgc gttgtccaga gccagccca gccctacgc cgcggcccg agctctgttc</p> <p>cctggaactt tgggactgc cctgggacc cctgcggcc agcaggaagg atggtgcttg</p> <p>cctcgtgccc cttgtgccc gctgctgat gtgcccagc tgtgcccc atgccgcc</p> <p>ccatctcagc ttccagggc gcctacatg gctcaggtt gctcatgccc ctggtctctg</p> <p>tgccccggaa cgtgctggtg atctggcggtg tgaaggtgaa ccaggcgctg cgggatgcca</p>	Homo sapiens
23	272	Adenosine A1 Receptor	NM_000674	<p>atgagtgatca gaagtgtgaa ggtgtcctgt tctgaatccc agagcctctt ctcctctgt A</p> <p>gaggtcggca ggtgaggaag ggtttaacct cactgcaagg aatccctgga gctagcggt</p> <p>gctgaaggcg tcgagtggtg gggcacttg gacagaaacg tcaggcagcc gggagctctg</p> <p>ccagcttttg tgaccttgg cgggctggg agcgtctggg cgggagccgg aggactatga</p> <p>gctgcgcgc gttgtccaga gccagccca gccctacgc cgcggcccg agctctgttc</p> <p>cctggaactt tgggactgc cctgggacc cctgcggcc agcaggaagg atggtgcttg</p> <p>cctcgtgccc cttgtgccc gctgctgat gtgcccagc tgtgcccc atgccgcc</p> <p>ccatctcagc ttccagggc gcctacatg gctcaggtt gctcatgccc ctggtctctg</p> <p>tgccccggaa cgtgctggtg atctggcggtg tgaaggtgaa ccaggcgctg cgggatgcca</p>	Homo sapiens

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 acgacctggg gagttagctt ggtgcgttag tccggggagg agcctggagt gtaattacct
 gctctgagcc ctcttcttg cctgagctt cctgggaggt ccaacagcca cgagggtgta
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 cccatctctg ctgcttctg gcctgatgga gaggagaaca ctagacatgc caactcggga
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 ctgtaggcgc cctggggtg ggtttagcag gctgcagcag gcagaggagg agtaccctcc
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 gcccctgtt gggagggcga ggcgggggat cctggagccc ctgtgtcggg gggcgaggga
 ggggaggtgg ccgtcgttg acctctgaa catgagtgc aactccagga ctgtcttcca
 agccctccc tctgttgaa attgggtgtg ccctggctcc caaggagggc ccatgtgact
 aataaaaaac tgtgaaccct

Homo

P

RDATFCFIVS

LAVADVAVGA

LVSVPGNVLV

IWAVKVNQAL

IMAVKVNQAL

RDATFCFIVS

LAVADVAVGA

LVSVPGNVLV

IMAVKVNQAL

RDATFCFIVS

Receptor	Adenosine A2a Receptor	273	NM_000675	225	sapiens
LVIPLAILIN IGPQTYFHTC LMVACPVLIL TQSSILALLA IAVDRYLVRK IPIRYKMVVT					
PRAAAVAIAG CWILSFVVGL TPMFGWNLS AVERAWAANG SMGEPIKCE FERVISMEYIM					
VYENFFVWVL PPLLMLVIY LEVFYLIRKQ LNKKVSASSG DPQKYGKEL KIAKSLALIL					
FLFALSWLPL HILNCITLFC PSCHKPSILT YIAIFLTHGN SAMNPVIYAF RIQKFRVTEL					
KIWNDFHRCQ PAPPIDEDLP EERPDD					
tttgcagggt cctcaggaaac cctgaagctg ggctgagcca tgatgtgtgt gccagaaccc A					
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ccccagcagg gctgcacttg gctctgttga ggaaggggct cagggtcttg gcccctcccg					
cctgggcagg gctgggagcc aggcggcgcg ctgggctgca gcaatggacc gtgagctggc					
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ttgtgtggc cgtgtggctc aacagcaacc tgcagaacgt caccactac ttgtgtgtgt					
cactggcgcc ggccgacatc gcagtgggtg tgctcgccat ccccttgcc ataccatca					
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gcatcccgct ccggtacaat ggcttggtag ccggcacgag ggctaaggcg atcattgcca					
tctgctgggt gctgtgttt gccatcggcc tgactcccat gctaggttgg acaactgcg					
gtcagccaaa ggagggcaag aaccactccc aggtctgctgg ggagggccaa gtggcctgtc					
tctttgagga tgtgtcccc atgaactaca tgggttactt caactcttt gctgtgtgct					
tgtgtcccc gctgtctatg ctgggtgtct atttgggat ctctctggcg gcgcagcgac					
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tgccccata catcatcaac tgccttactt tcttctgccc cgaactgcag cagccccctc					
tctgtgtcat gtacctggcc atcgctctct cccacaccaa ttggtgtgtg aatcccttca					
tctacgccta ccgtatccg gatttcgccc agactctcc caagatcatt cgcagccacg					
tcctgaggca gcaagaacct ttcaaggcag ctggcacccag tgccccgggtc ttggcagctc					
atggcagtga cggagagcag gtacgctcc gtctcaacgg ccaccgcga ggagtgtggg					
ccaaaggcag tgcctccac cctgagcgga ggcccaatgg ctatgcccgt gggtgtgtga					
gtggaggggag tgcccaagag tcccagggga acacgggctt cccagacgtg gactcctta					
gccatgagct caagggagtg tgccacagc cccctggcct agatgacccc ctggcccagg					
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cctggccctg agactgggga gtggtccaa tagcctctg cccaccacac accactctcc					
ctagactctc ctagggttca ggagctgctg gggccagatg tgacatttga ctttttcca					
ggaaaaatgt aagtgtgagg aaacctttt tattttatta ctttctact tctggctgct					
gggtctgccc tcggtcctgc tgctaacctg gcaccagagc ctctgcccgg ggagcctcag					
gcagtcctct cctgtgttca cagtgccat ccacttctca gtcccagggc catcttttgg					

26	273	Adenosine A2a Receptor	NP_000666.2		MPIMGSSVYI TVELAIAVLA ILGNVLVCWA VLNLSNLQNV TNYFVSLAA ADIAVGLAI P	Homo sapiens	
27	274	Adenosine A2b Receptor	NM_000676		YALGLVSGGS AQESQNTGL PDVELLSHEL KGVCEPPEGL DDPLAQDGAG VS	Homo sapiens	
					gggcaatttg ttagttatcc gccgccacca agacgcggca cggcgctcgg accggagggg A ccccgcgcg ggcggaactt tgggctcggg cgagtgggtg gtgctccgcg cagccccaga cgggcggcg cgcgggccaa tgggtgcgc ctcttgccg cggggggccc cgaccctgg gtcccgcca ccagcgcgc ccagtcac cgggtctcac gcggtgcgc ctcgcccgc gcgcctcgg ggcgtatgg ccatgcgcg cgggtctcac gcggtgcgc ccatgtgtct ggagacacag gacgcgtgt tagggggcg cggggggcca gctggcccg cctgctgtt ttctcctggc gggcaacgtg ctggtgtgcg acgtggcgt ggagctgtt atcgccgcg actctgcaga cgcaccaa ctacttctg gtgctccctg ccgcggtggg caggggaac actcgcaga gcccacaa ctacttctg gtgctccctg ctgcggcca cgtggcgtg gggctcttc ccatccctt tgccatcac atcagcctgg gctctgcac tgacttctac ggctgcctt cctcgctg ctctgctg gtgctcacg agagctccat cttcagcctt ctggcgtgg cagtcgacag atacctggc atctgtgtcc cgctcaggta taaaagtgtg gtcacgggga cccgagcaag aggggtcatt gctgtcctct gggtccttg ctttggcatc ggattgact cattcctggg gtggaacagt aaagacagt ccaccaaca ctgcacaga cctgggatg gaaccacga tgaagctgc tgccttgtga agtgtctctt tgagaaatgt gtccccatga gctacatggt atatttcaat tctttgggt gtgtctgcc ccactgctt ataagtctg tgatctacat taagatcttc ctggtggcct gcaggcagct tcagcgcact gagctgatgg accactcag gaccacctc cagcgggaga tccatgcagc caagtcactg gccatgattg tggggatttt tggcctgtgc tggttacctg tgcattgctg taactgtgtc actctttcc agccagctca gggtaaaaa aagcccaagt gggcaatgaa tatggccatt cttctgtcac atgccaattc agttgtcaat cccattgtct atgcttaccg gaaccgagac ttccgctaca cttttcaca aattatctcc aggtatcttc tctgccaagc agatgtcaag agtgggaatg gtcaggctgg ggtacagcct gctctcgggtg tgggcctatg atctaggtc tcgcctcttc caggagaaga tacaatatcca caagaaaca agaggacacg gctgggtttc attgtgaaag atagctacac tccacaagg aatggactgc ctctcttgag cacttccctg gagctaccac gtatctagct aatatgtatg tgtcagtagt aggctccaag gattgacaaa tataattatg atctattcag ctgcttttac tgtgtggatt atgccaacag cttgaatgga ttctaacaga ctcttttgt tttaaaagtgc tgccttggtt atgggtggaaa attactgaaa ctattttact gtgaaacagt gtgaactatt ataattgcaa tactttttta cttagaggca atggaaaaat aaaagtgtac tgtactaaaa atg		

28	Adenosine A2b Receptor	NP_000667.1	MLLETQDALY VALELVIAAL SVAGNVLVCA AVGTANTLIQT PTNYFLVSLA AADVAVGLEFA P IPFAITISLG FCTDFVGLF LACFVLVLTQ SSIFSLAVA VDRYLAICVP LRYKSLVTGT RARGVIAVLW VLAFGIGLTP FLGWNKSDSA TNNCTEPWDG TTNESCCLVK CLFENVVPM YMYNFNFFGC VLPPLIMLV IYIKIFLVAC RQLQRTILMD HSRTTLOREI HAAKSLAMIV GIFALCWLPV HAVNCVTLEFQ PAQGNKPKW AMNMAILSH ANSVVNPIVY AYNRDRFRYT FKHIIISRYLL QADVKSNG QAGVQPALGV GL	Homo sapiens
29	Adenosine A3 Receptor	NM_000677	atctttgctg caaagctgg gctatcgctg tgctcagcaa agcgtcaact cgtgcaagaa A cttagcagga atagtctctgg ctaaggttag gaggctgcca ccaaagtctc tttttgttc ctctgcttct cccgtttgcc tccttatcat gagactttt tgctaaagtgc gcagaaagat tgcatagtca gtgcttcag ctctgctccc acctgacct gactgtcct ctggtccctg aatgaatgaa ctctgatacc caatctgtc tcgagccctc tctatgccac tcatggctcc tctctgtctc tttccatctt ttgtctgaga gttctgact ctgtacttcc tcttgccc tctcacttcc tgaacacccc ctgaagaggg ttgcttatct tgatggaact caaaagcca aaaagctgca ggcagagggc ttgaggacat ctgtttgggg aaacttgagg atgtgcggtg tcagattcag tccatataga gctgtcctac agcattctgg aaacttgagg atgtgcggtg cataaagggg ctggaagtga cccacctgtg atgagccctt tctaaggaga aggttttcca agagatcacc ccaccagaaa aggttaggaa tgagcaagtt gggaatttta gactgtcact gcacatggac ctctgggaag acgtctggcg agagctaggc ccactggccc tacagacgga tcttgctggc tcacctgtcc ctgtggaggt tccccggga aggcaagatg cccaacaaca gcactgtct gtcatgggcc aatgttacct acatcaccat ggaaattttt attggactct ggccatagt ggcaacgtg ctggtcactc gcgtgtcaaa gctgaacccc agcctgcaga ccaccacct ctatttcatt gtctctctag ccctggctga cattgctgtt ggggtgctgg tcatgcttt ggccattgt gtcagcctgg gcatacaat ccacttctac agctgacctt ttatgacttg cctactgctt atctttaacc acgctcctac catgtccttg ctggccatcg ctgtggaccg atacttgcg gtcaagctta ccgtcagata caagagggtc accactcaca gaagaatatg gctggccctg ggcctttgct ggctgggtgc attcctggtg ggattgacct ccatggttgg ctggaacatg aaactgacct cagagtacca cagaaatgtc acctcctt catgccaatt tgtttccgtc atgagaatgg actacatgtt atacttcagc tctctcact ggattttcat ccccttggtt gtcatgtcg ccatctatct tgacatctt tacatcattc ggaacaaact cagctgaac ttatctaact ccaagagac aggtgcattt tatggacggg agtccaagac ggctaagtcc ttgtttctgg tcttttctt gttgtcttg tcatggctgc ctttatctat catcaactgc atcatctact ttaatgttga ggtaccacag cttgtgctgt acatgggcat cctgctgtcc catgccact ccgatgtaa cctatcgtc tatgcctata aaataaagaa gttcaaggaa acctacctt tgatctctca agcctgtgtg gctgacctc cctctgattc ttggacaca agcattgaga agaattctga gtgattatcc atcagagatg actctgtctc attgacctc agattcccca tcaacaaaaa cttgagggcc tgtatgcctg ggccaaggga tttttacatc ctgtattact tccactgagg tgggagcatc tccagtgtc cccaattata tctccccac tccactact tcttctcca ctctatttt cctttgtct ttctctctaa ttcagtgtt ttggaggcctg acttggggac aacgtattat tgatattatt gtctgttttc ctcttcca atagaagaat aagtcattga gcctgaaggg tgcctagtgtg acttactgac aaaaggtctc agttgggctg aacatgtgtg tgggtgtgac tcatctcat	Homo sapiens

30	275	Adenosine A3 NP_000668.1 Receptor	gccattgtgg aattgagcag agaactctgt ctcggaggat gcctagaaga tgttggggaac agaagaata aactgagttt aaggggact taaactctg aattcacctg tggatgtttt tgagtaata aaagctaata g MPNNSTALSL ANVTYITMEI FIGLCAIVGN VLVICVVKLN PSLQTTTFYF IVSLALADIA P VGLVMPLAI VVSLGITHF YSCLEMTCLL LIFTHASIMS LLAIADVRYL RVKLTVRYKR VTTHRIWLA LGLCWLSFL VGLTPMEGN MKLTSEYRN VFLSCQFVS VNRMDYMYF SFLTWIFIPL VMCIAIYLDI FYIIRNKLSL NLSNSKETGA FYGREFKTAK SLFLVLFLEA LSWLPLSIIN CIIYFNGEVP QLVLYMGILL SHANSMMNPI VYAYKIKKFK ETYLLILKAC VVCPSDSL TSIEKNSE	Homo sapiens
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	atgaagcaca ttatcaactc gtatgaaac atcaacaaca cagcaagaaa taattccgac A tgtctctgtg tggttttgcc ggaggagata tttttcacaa tttccattgt tggagttttg gagaatctga tctgctctgt ggctgtgttc aagaataaga atctccaggc acccatgtac ttttcatct gtactgtggc catatctgat atgtctggga gcctataaa gatcttggaa aatatctga tcatattgag aaacatgggc tatctcaagc cactggcag ttttgaaaac acagccgatg acatcatcga ctccctgttt gtcctctccc tgcctggctc catcttcagc ctgtctgtga ttgctggga cgcctacatc accatcttcc acgcactgg gtaccacagc atcgtgacca tgcgcgcgac tgtggtgtgtg cttacggtca tctggacgtt ctgcacggg actggcatca ccatggtgat cttctcccat catgtgccc cagtgateac cttcacgtcg ctgttcccgc tgcgtctgtt cttcatctgt tgcctctatg tgcacatgtt cctgctggct cgatccaca ccaggagat cttcacctc ccagagcca acatgaaagg ggcatacaca ctgaccatcc tgcctgggtt cttcatcttc tgcgtggccc cctttgtgtt tcatgtctc ttgatgacat tctgcccgaag taacctctac tgcgcctgct acatgtctct cttccagggtg aacggcatgt tgatcatgtg caatgcctc attagacct tcatatagc cttccggagc ccagagctca gggacgcat caaaaagatg atctctgca gcaggtaactg tag INNTARNSD CPRVLPPEI FFTISIVGL ENLIVLLAVF KNKNLQAPMY P FFICSLAISD MLGSLXKILE NILIILRNMG YLKPRGSFET TADDIIDSIF VLSLLGSIFS LSVIAADRYI TIFHALRYHS IVTMRRTVV LTVIWTFCTG TGITMVIFSH HVPTVITFTS LFPLMLVFIL CLYVHMFLLA RSHTRKISTL PRANMKGALT LTILLGVFIF CWAPFVLHVL LMTFCPSNPY CACYMSLFQV NGMLIMCNAV IDPFIYAFRS PELRDAFKKM IFCSRYW	Homo sapiens
32	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	tcctgcccgc cgctcgttct gtgcccccg cccggccacc gacggcccg cgttgagatg A actttccgcg atctctctgag cgtcagtttc gaggagacc ccccgacag cagcgcagg ggctccagcg cgggcccgcg cgggggcagc gggggcggg cggccccctc ggaggcccc gcgtgggcg gcgtgccggg gggcgcggg gcgtggtgg cgcaggcagc ggcgaggaca accgagctc cgggggggag cggggcggg cggcgacgtg aatggcacgg cggccgtcgg gggactggtg gtgagcgcgc agggcgtggg cgtggcgctc ttcctggcag ccttcactt tatggcctg gcaggtaacc tgcctgtcat cctctcagt gcctgcaacc gccacctgca gccgtcacc aactatttca tctgtaacct ggcgtggcc gacctgctgc tgagcgccac cgtactgcc ttctcgcca ccatggagt tctgggcttc tgggcccctt gccgcgctt ctgcgacgta tgggcccgcg tggacgtgct gtgctgcacg gcctccatcc tcagcctctg caccatctcc gtggaccgt acgtgggctg gcgccactca	Homo sapiens
33	376	Alpha 1d-adrenoceptor		Homo sapiens

[illegible]

36	Alpha 1b- adrenoceptor	NP_000670.1	atctagtca tctgtctgt ggctgcaac cggcacctgc ggagccccc caactacttc attgtcaacc tggccatggc cgacctgctg ttgagcttca ccgtcctgcc cttctcagcg gccttagagg tgcctggcta ctgggtgctg gggcgatct tctgtgacat ctgggcagcc gtggatgtcc tgtctgacac agcgtccatt ctgagcctgt gcgccatctc catcgatcgc tacatcgggg tgcgtactc tctgcagtat cccacgtcgg tcaccggag gaagcccatc ttggcgctgc tcagtgtctg ggtctgtctc accgtctatc ccacgggctc tctccttggg tgggaaggagc cggcacccaa cgatgacaag gagtcgggg tcaccgaaga acccttctat gccctcttct cctctctggg ctctctctac atccctctgg cggctattct agtcatgtac tgcgtgtct atatagtgc caagaagacc accaagaacc tagaggcagg agtcatgaag gagatgtcca actcaagga gctgacctg aggatcatt ccaagaactt tcacgaggac acccttagca gtaccaaggc caaggccac aacccccagga gtcccatagc tgtcaaaact tttaagtctt ccagggaataa gaaagcagct aagacgttgg gcatttgtt cggtagttc atcttgtgt ggtaccctt cttcatcgtt ctaccgctt gctccttgtt cttccacctg aagcccccg acgcgtgtt caagtggtg tctgtgctgg gctacttcaa cagctgcctc aaccccatca tctaccatg ctccagcaag gatttcaagc gcgcttctg gcgcatcctc gggtgcagc gccgcggcg gggcgccgc cgacgcgcg cgcgcctgc cctgggcggc tgcgctaca cctaccggcc gtggacgctg ggcggtctgc tggagcgtc gcagtgcgc aaggactgc tggacgacag cggcagctgc ctgagcgga gccagcgac cctgccccg gcctgcgga gccgggcta cctgggcgc cggcgccac gccagtcga gctgtgcgc tccccagc ggaagcgcc cggcgccctc ctgagcctgc cgcgcctga gcccccggc cgccgggccc gccacgact gggccgctc ttacacctc agtccctgac cgagccccag agccccggga ccgacggcg ccgacgaac ggagcgtcg agcccgcgcc cgacgtggcc aacgggcagc cgggcttcaa aagcaacatg cccctgggc cgggcagtt ttaggcccc cgtgcgagc tttcttccc tggggaggaa aacatcgtgg ggggga VGNILVILSV ACNRLRPT TSAPAHGEL KNAFTGPNQ TSSNSTLPQL DITRAISVGL VLGAFILFAI P WAAVDVLCCT ASILSCAIS IDRYIGVRS LQYPLVTRR KAILALLSV VLSTVISGP LLGWKEPAPN DDKECGVTEE PFYALFSLG SFYIPLAVIL VMYCRVYVA KRTKNLEAG VMKEMSNSKE LTLRIHSKNF HEDTLSTKA KGNPRSSIA VKLFKFSREK KAAKTLGIIV GMFILCWLPF FIALPLGSLF STLKPPDAVF KVVFWLGYFN SCLNPIIYPC SSKEFKRAFY RILGCCQCRG RRRRRRRR LGGCAYTYP WTRGGSLEERS QSRKDSLDS GSCLSGSQRT LPSASPSPGY LGRGAPPVE LCAFPWKAP GALLSLPAPE PGRRRGRHDS GPLFTFKLLT EPESPGTDGG ASNGGCEAAA DVANGQPGFK SNMPLAPGQF gaattccgaa tcatgtgcag aatgctgaat cttccccag ccaggacgaa taagacagcg A cgaaaagca gattctcgtg attctggaat tgcattgttc aggagcttc ctggtatctt gcacccagct tcgggtaggg agggagtcgg ggtccccggg taggccagcc cggcaggtgg agaggttccc cggcagcccc gcgcgcccc gccatgtct ttaatgcccc gcccttcat gtggccttct gaggttccc agggctggcc aggttggttt cccacccggc cgcgcgtct caccaccagc caaacccacc tggcagggtt cctccagcc gagacctttt gattccccggc tccccgctc ccgcctccg gccagcccc gaggtggccc tggacagccg gacctcgccc ggccccggct ggaccatgg tgttctctc ggaaatgct tccgacagct ccaactgcac	Homo sapiens
37	Alpha 1c- adrenoceptor	NM_000680		Homo sapiens

38	Alpha 1c- adrenoceptor	NP_000671.1	<p> cgaacggccg gcaacgggtga acatttccaa ggccattctg ctcggggtga tcttgggggg cctcattctt ttcgggggtgc tgggtaacat cctagtgatc ctctccgtag cctgtcaaccg acacctgcac tcagtcacgc actactacat cgtcaacctg gcggtggccg acctcctgct cacctccacg gtgctgccct tctccgccat ctctcaggctc ctaggctact gggccttcgg cagggtcttc tgcaacatct ggcgccagct ggaatgctg tgctgcaccg cgtccatcat ggcctctgac atcatctcca tgcacggcta cctcggcggtg agctaccgcg tgcgtaccc aaccatcgtc acccagagga ggggtctcat ggctctgctc tgcgtctggg cactctccct ggtcatatcc attggacccc tgttcggctg gaggcagccg gccccgagg acgagaccat ctgccagatc aacgaggagc cgggctacgt gctctctca gcgctgggct cctctacat gcctctggcc atcatcttg tcatgtactg ccgctctac gtggtggcca agaggagag ccggggcctc aagtctggcc tcaagaccga caagtggac tcggagcaag tgacgctccg catccatcgg aaaaacgccc cggcaggag cagcgggatg gccagcgcca agaccaagac gcacttctca gtgaggctcc tcaagtctc ccgggagaa aaagcgcca aaagctggg catcgtggtc ggctgcttcg tccctgctg cctgctctt ttcttagtca tgcccatgg gtcttctctc cctgatttca agccctctga aacagtctt aaaaatagtat ttgggctcgg atatctaaac agctgcatca acccctcat ataccctgc tccagccaag agttcaaaa ggcctttcag aatgtcttga gaatccagt tctccgaga aagcagtctt ccaaacatgc cctgggtac accctgacc cggccagcca ggccgtgaa gggcaacaca agacatggt gcgcacccc gtgggatcaa gagagacct ctacagatc tccaagcgg atggcgtttg tgaatggaaa ttttctctt ccatgcccg tggatctgc aggattacag tgtccaaaga ccaatcctcc tgtaccacag ccggggtgag agttaaagc tttttggagg tctgctgctg tgtaggggcc tcaaccccca gccttgacaa gaaccatcaa tttccaaacca ttaaggtcca caccatctcc ctcagtgaga acggggagga agtctagac agaaaagtgc cagaggaaaag gggaataatc ttagttacc acccacttc ctctcgaa gccagctct tcttggagga caagacagga ccaatcaaa aggggacctg ctgggaatgg ggtgggtggt agaccaact catcaggcag cgggtagggc acagggaaga gggagggtgt ctcaacaacca accagttcag aatgatacgg aacagcatct ccctgcagct aatgcttct tggtaactct gtgccactt caacgaaaaac caccatggga aacagaattt catgcacaat ccaaaagact ataaatatag gattatgatt tcatcatgaa tattttgagc acacactca agtttgagc tatttcttga tggaagtgcg gggattttat ttccaggctc aacctactga cagccacatt tgacattat gccgggaattc </p>	Homo sapiens
379	Alpha 1c- adrenoceptor	NP_000671.1	<p> SSNCTQPPAP VNISKAILLG VILGGLILFG VLGNILVILS VACHRHLSV P THYIIVNLA VADLLTSTVL PFSAIFEVLG YWAFGRVFCN IWAADVVLCC TASIMGLCII SIDRYIGVS YPLRYPTIVTQ RGLMALLCV WALSLVTSIG PLFGWRQPAP EDETICQINE EPGYVLEFSA LGSFYLPLAI LVMYCRVYV AKRESRLGKS GLKTDKSDSE QVTIRIRKN APAGSGMAS AKTKHFSVR LLKFSREKKA AKTLGIVVGC FVLCWLPFFL VPIGSEFPD FKPSETVFKI VFWLGYLNSC INPIIYPCSS QEFKAFQNV LRIQCLRRKQ SSKHALGYTL HPPSQAVEGQ HKDMVRIPVG SRETFYRISK TDGVCWEKFF SSMPRGSA RI TVSKDQSSCT TARVRSKSF L EVCCCVGPST PSLDKNHQVP TIKVHTISLS ENGEEV </p>	Homo sapiens
39	Alpha 2a- adrenoceptor	NM_000681	<p> gcgctcgccg ccacacaggc ggacgcccag gagaacccct gcctccgtgc cggctcctgg A agagctgac gtccacatgc cccggcccgc ctgaggagcgg ggggtgccttc atcgggcccc </p>	Homo sapiens

caactctct acccgccgc cgcgcgcgtc ccgagctcc gcacagtgcg cccagcccc
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40	Alpha 2a- adrenoceptor	AAA51664.1	gctcacaaaa ggttaatgga tgggggttac ctaggcctgg ctaattcccc ttccattccc aactctctct ctctttttga agaaaaatgc taaggcagc cctgcctgcc ctcccaccc cccgcgtgaa atatacata tttttgatag cacacatggg gccccatat ctcttgccct tggttttgat gttgaaatcc tggccttggg agagatgcct tccaggcaga cacagctgc tggttcaggc caagccctct tgaatgcaa gccctttctg gtgttatgaa ttccctctat gtcgtcgttt tcaccagcaa ctggtgactg tcccttcgag cggacccgc tttgagattt cctgacaggg aaaagatttc tgtccatttt tttcctgtgc ctaacagcat aattgccttt tcctatgtaa atattatgat ggtggatcaa gacataagta aatgagcctt tctgcctcac atcagccctg tgtataaagc cattattctc tgaagcactg tttgccccag taactcactt taaaacctct ctttccagtg ttcctctctc ccttcaggg ccaatgcttg aagaagaata tgtatgtttc tatcttttat gtctgtgtgc cctcctgcc cggaaagtgc tgactatggg gaaatctttt agctgctgtt tttagactcc aaggagtggg aattatgttg aagaagcaaa cctgatacaa tttgcccagg gtaaacagtt tgaagaagca aatgggcctg ccaaacgtg cagtttcttc ccaagagct gttaggtatc aaaaattgtt cctttcccc ctcctgtgctt ttctggttga gatcatgtca ttgatgaact gcaaaagtca ggggaggagg gcagagactt tgtgtttaca tctgcatttc tacatgtttt agacagagac aatttaaggc ctgcaacttt atttcactaa agaaaaacta atgtcagcac atgttgctaa tgacagtggg tttttttta aataaaaaag tttacagatc aaatgtgaaa taaatatgaa tggagtggtc aaa MGSQPDPAGN ASWNGTEAPG GARATPYSL QVTLTLVCLA GLMLLTVFG NVLVIIVFT P SRALKAPQNL FLVSLASADI LVATLVIPES KANIEVMGYV FGVISFPLI SIEKKGSGG IVHLCAISLD RYWSITOAE YNLKRTPRRI IMILVYVRI QIAKRRTVRP PSRRGPDAVA PQPAEPRCEI NDQKWYVISS CIGSFFAPCL LKIIITCWI VSAISFPLI SIEKKGSGG APPGTERRP NGLGPERSAG PGGAEEPLP TQLNGAPGER APAGPRDTDA LDLESSSSD HAERPPGPRR PERGPRGK ARASQVKPGD SLRGAGRGR GSRRLQGRG RSASGLPRRR AGAGGQNLK RFTFVLAVI GVFWVCWFPF FFTYTLTAVG CSVPRTLKFE FFWFGYCNS LNPVIYITFN HDEFRAFKKI LCRGDRKRIV	Homo sapiens
41	Alpha 2b- adrenoceptor	NM_000682	atggaccacc aggaacccta ctccgtgcag gccacagcgg ccatagcggc ggccatcacc A ttcctcattc tctttaccat cttcggcaac gctctggtca tcttgctgtt gttgaccagc cgctcgtgc gcgcccctca gaacctgttc ctggtgtgc tggccgcccgc cgacatcctg gtggccagc tcatcatccc ttctcgtcgt gccaacgagc tgctgggcta ctggtacttc cggcgaactg ggtgcgaggt gtacctggcg ctgcagctgc tcttctgac ctgctccatc gtgcacctgt gcgccatcag cctggaccgc tactgggccc tgagccgccc gctggagtag aactccaagc gcaccccgc cgcatacaag tgcatactcc tcaatgtgtg gctcatcgcc gcgctcatct cgtgcgccc cctcatctac agggcgacc agggccccc gccgcgccc cgccccagt gcaagtcaca ccaggaggcc tggatcatcc tggcctccag catcggtatc ttctttgtc cttgcctcat catgatctct gtctacctg gcatactact gatcgccaaa cgagcaacc gcagaggtcc caggggccag ggggggcctg gccagggtag gtccaagcag ccccgacctg accatggttg ggttttgcc tcagccaaac tgcagccct ggcctctgtg gcttctgcca gagaggtcaa cggacactcg aagtcactg gggagaagga ggaaggaggag acccctgaag atactgggac ccgggcccctg ccaccagtt gggctgccct tcccaactca ggccaggccc agaaggaggg tgtttgtggg gcatactccag aggatgaagc tgaagaggag	Homo sapiens

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Homo

P

RSLRAPQNL

ALVILAVLTS

FLILFTIFGN

ATAAIAAAT

MDHQDPYSVQ

NP_000673.1

Alpha 2b-

388

42

adrenoceptor	sapiens
43	VATLIPFSL ANELIGYWF RRTWCEVYLA LDVLFCTSSI VHLCAISLDR YMAVSRALEY NSKRTPRRIK CIILTWLIA AVISLPLIY KGQDQOPRG RPQCKLNQEA WYILASSIGS FFAPCLIMIL VYLRILIYIAK RSNRRGPRAK GPGQGQESKQ PRPDHGGALA SAKLPALASV ASAREVNGHS KSTGEKEGE TPEDTGTRAL PPSWAALPNS GQGQKEGVCG ASPEDEABEE EEEEEEEC EPQAVPVSPA SACSPLQQP QGSRVLATLR QVLLGRGVG AIGQWRRRR AHVTREKRET FVLAVVIGVF VLCWFEFFFS YSLGALCPKH CKVPHGLEQF FFWIGYCNS LNPVIYTIEN QDFRFRRI LCRPWTQTAW
389	ctgcaggcgg ccctgaggg ggcgcctctg ccgagcgcg ccgccgcgc gccgccccg A actctcccc ggcgcgcgc ggcaggttc gaccagcgcg ccgcgggtc cggttccccg ccagctcccc agggcccgcg ggcgcccgcc ccgcggcccc gccccgtgc gctaaactcga cccaagtgg aagcgatcg caggcgccg cactcgccg cagcgaggcg gccggcgcg gcggcgcg agtcggcg agcgagcg cgagcgact cgccgcccc gaaagcgtg accgcgggg gcgccgcgc cgggagcag cggagagtc cggcgcccc cggcgcccc cccgggaaa taaagtggga gacgagggga gcgcggggg cgggccccga gagcgcgcg ccggcgcccc ggcgcgcg gacctagcgg ccgatggga ggcggagcg ccgggcccg gccgccccg cgctcgcg ccgctggcg tccgggacgg cggggcgct ccgtgagcg gccgagcg ggacccccg acctgcccc cccccccc agcgcgctg ccgctcgct cggcgcccc ctgctctgca cttaacgct cggcagctg ggggagccc gagccacgc tctccggcg gcgcgcccg gagccaccac ggcgagggg cggctgctg gcgcgggtt ccccgcgcg cgcgccccg cagcagcg cgatcgggc gcgaccccc gctgggggg gccgagctg ccggcgctg ccccgcgct caggagggg ggcgtagccc cgggagggc catggcgctc ccggcgctg cggcgcgct ggcggtgcg gacgcgcg gcccaatgc gagcgcgcg ggcagaggg gacgcgcg ggttgccat gcctggggg cttcctggg gccgcgcgc ggccagctact cggcgcgcg ggtggcagg ctggctggc tggggggtt cctcatcgct ttcacctgg tgggcaact gctgggtgg atcgccgtg tgaccagcg ggcgctgcg gcgcaacga acctctctt ggtgtgctg gcctcgcg acatcctggt ggccacgctg gtcatgacct tctgctggc caacgagctc atggcctact gttacttgg gcagggtgg tgcgggctgt acctggcgct cgatgtgct ttttgcact cgtcgatcg gcatctgtg gccatagcc tggacgcta ctggtcggt cgcagggcg tcgagtaaca cctgaagcg acacacgcc gcgtcaagg caccatgct cccgtgtgg gccgtcgct cgtcatctc ttcccgccg tggctcgt ctaccgccc cccgacggc ccgctaccc gcagtggcg ctcaacgac agacctggta catcctgtc tcttgatcg gctcctctt cgcgccccg ctcatatgg gcctggtcta cgcgcgcat taccagtggt ccaagcgtg cagcgcacg ctcagcaga agcgcccc cgtgggccc cgtggtggt ccccgactac cgaacacgg ctggcgcg cggcagcga ggcgagaac ggcactggc cccccgcg gccgacgtg agccgacga gagcagcga gcggcgaga ggcggcgcg cggggcggtt gcggcgggg ggcgcgcg gagcgcgcg ggaaggggg gcggcggtg cggacggga gggggcggg ccggggcg ctcagtcgg ggcgtgacc gcctccagt ccccggggc cgttggcgc ctctcgcg ccagctcg ctccgtcg tctctcgt cgcgcggcg ccggcgcg agcagctgt gccgcgcaa ggtggcccg gcgcgagga agcgttcac ctttgtgctg
Alpha 2c- adrenoceptor	Homo sapiens

43 389 NM_000683

44	Alpha 2c- adrenoceptor	NP_000674.1	389	<p>gctgtggtca tgggctgtgt cgtgctctgc tgggtccctt tcttctcat ctacagcctg</p> <p>tacggcatct gccgcgagc ctgccaggtg ccggcccgcc tcttcaagtt cttctcttgg</p> <p>atcgctact gcaacagctc gctcaacccg gtcattaca cggcttccaa ccaggatttc</p> <p>cgcccatcct tcaagcacat cctcttcoga cggagagagaa ggggcttcag gcagtgaactc</p> <p>gcaccgtct gggaatcctg gacagctccg cgctctgggc tgggcagaag gggcgcccg</p> <p>gacgcggggg agctttccca gagaccggg gagcttccc agagaccgg ggatggattg</p> <p>gcctccaggg cgcaggggag ggtgcggcag ggcagagctt tggcagagag atagccgggc</p> <p>tccaggaggt ggggagagaga gaggggaga cccctttgcc tccccctc agcaaggggc</p> <p>tgcttctgg gctccctgcc tggatccagc tctggagcc ctgccaggt gtgctgtga</p> <p>ggtcagggtt ttagagagca gtggcagagg tagccctta aatggcaag caaggagccc</p> <p>cccaagaca ctaccactcc ccctccctct ctgaccaagg gctgacttct ccaggaccta</p> <p>gtcggggggt ggctgccagg gggcaaggag aaagaccga caatcttga ttactgaag</p> <p>tatttaaatg ttgccaata acaacagcca aaacaaccaa actatttctt aataaacct</p> <p>ttgtaa</p>	Homo sapiens
45	Bradykinin B1 Receptor	NM_000710	599	<p>ctgtgatgg catcatctg gccccctta gagctccat cctccacca gagccagctc A</p> <p>ttccctcaaa atgctacggc ctgtgacaat gctccagaag cctgggaact gctgcacaga</p> <p>gtgctgccga cattatcat ctccatctgt ttcttcggcc tcttaggaa cctttttgtc</p> <p>ctgttggtct tcctctgccc ccggcggcaa ctgaaactgg cagaaatcta cctggccaac</p> <p>ctggcagcct ctgacttggt gttgtcttg gcttgccct tctgggcaga gaatatctgg</p> <p>aaccagttta actggccttt cggagccctc ctctgcccgt tcatcaacgg ggtcatcaag</p> <p>gccaatttgt tcatcagcat ctctctggtg gtggccatca gccaggaccg ctaccgctg</p> <p>ctggtgcacc ctatggccag cggaaggcag cagcgggga ggcaaggccg ggtcacctgc</p> <p>gtgctcatct ggggttgggg gggcctcttg agcatcccca cattctctgt gcgacctc</p> <p>caagccgtcc cagatctgaa catcacgcc tgcactctgc tctccccc tgaggccctgg</p> <p>cactttgcaa ggatttgga gttaaatatt ctgggtttcc tctaccact ggctgcgac</p> <p>gtcttcttca actaccacat cctggcctcc ctgcgaacgc tggaggaggt cagcaggaca</p> <p>agagtgcggg ggcgaagga tagcaagacc acagcgtga tctcacgct cgtggttggc</p> <p>ttcctggtct gctgggccc ttaccacttc ttgctctcc tggaaattct attccagggtg</p> <p>caagcagtc gaggtgctt ttggaggac ttcatggac tggcctgca attggccaac</p> <p>ttcttgctt tcaactaacg ctccctgaat ccagtaattt atgtcttgt gggccggctc</p> <p>ttcaggacca aggtctggga actttataa caatgcacc ctaaaagtct tgcctcaata</p> <p>tcttcatccc ataggaaaga aatcttccaa cttttctggc ggaattaaaa cagcattgaa</p> <p>cc</p>	Homo sapiens

46	599	Bradykinin B1 Receptor	NP_000701.1	MASSWPPLEL QSSNOSQLFP QNATACDNAP EAWDLLHRVL PTFIISICFF GLLGNLFVLL P	Homo sapiens
				VFLPRRQLN VAEIYLANIA ASDLVFVLGL PFWAENIWNQ FNPWFGALLC RVINGVIKAN	
				LFISIFLVVA ISQDRYRVLV HPMASGRQQR RRQARVTCVL FLFVGGLLSI PTFLLRSIQA	
				VPDLNITACI LLLPHEAWHF ARIVELNIG FLLPLAIVF FNYHILASLR TREEVSRRRV	
				RGPKDSKTTA LILLVVAFL VCVAPYHFFA FLEFLQVQA VRGCFWEDFI DLGLQLANFF	
47	600	Bradykinin B2 Receptor	NM_000623	ATFTSSINPV IYVFVGRLEF TKWELYKQC TPKSLAPISS SHRKEIFQLF WRN	Homo sapiens
				atgttctctc cctggaagat atcaatgttt ctgtctgttc gtgaggactc cgtgccacc A	
				acggcctctt tcagagccga catgtctaat gtcacctgc aagggccac tcttaacggg	
				accttgcctc agagcaaatg cccccaagtg gagtggctgg gctggctcaa caccatccag	
				cccccttcc tctgggtgct gtctgtgctg gccacctag agaaccattt tgtcctcagc	
				gtcttctgcc tgcacaagag cagctgcacg gtggcagaga tctacctggg gaacctggcc	
				gcagcagacc tgatcctggc ctgcgggctg ccttctggg ccatcccat ctccaacac	
				ttcgactggc tctttgggga gacgtcttgc cgcgtggtga atgccattat ctccatgaac	
				ctgtacagca gcattctgtt cctgatgctg gtgagcatcg accgtacct ggccttggtg	
				aaaaccatgt ccatggggcg gatgcggcg cctgagctca cccatgtggg ccaagctcta cagcttggtg	
				atctgggggt gtacgtgct cctgagctca cctgagctgg tgttcggag catgaaggag	
				tacagcgatg agggccacaa cgtcacgct tgtgtcatca gtaaccatc cctcatctgg	
				gaagtgttca ccaacatgct cctgaatgtc gtgggcttcc tgcggccct gagtgtcatc	
				accttctgca cgtgcagat catgcaggtg ctgcgagaca acgagatga gaagttcaag	
				gagatccaga cggagaggag ggccacgggtg ctagtcttgg ttgtgtgct gctattcatc	
				atctgtggc tgccttcca gatcagcacc ttcctggata cgtgcctcg cctcggcatc	
				ctctccagct gccaggacga gcgcatcatc gatgtaatca cacagatcgc ctcttcatg	
				gcctacagca acagctgct caaccactg gtgtactga tctgtggcaa gcgcttccga	
				aagaagtctt gggaggtga ccaggagtg tggcagaaa ggggctgcag gtcagaaccc	
				attcagatgg agaactccat gggcacactg cggacctcca tctccgtgga acgccagatt	
				cacaaactgc aggaactggc agggagcaga cagtgcagaa acgccagcag ggctgctgtg	
				aatttgtga aggatggagg gacagtgtgt tttcagcatg ggccagga tgccaaggag	
				acatctatgc acgaccttg gaaatgagt gatgtctcg gtaaacaccc ggagactaat	
				tcctgcctg cccaaatttg caggagagcat ggctgtgagg atggggtgaa ctcacgcaca	
				gccaaaggact ccaaatcac aacagcata ctgttctat ttgctgccac acctgagcca	
				gcctgctcct tcccaggagt ggaggaggcc tggggggagg gagaggagt actgagcttc	
				cctcccggtg ttctccgtc cctgccccag caagacaact tagatctcca ggagaactgc	
				catccagctt tgggtgcaatg gctgagtga caagtgagt ttgcccctgg gtttctttaa	
				tctattcagc tagaaacttg aaggacaatt tcttgcatg ataaaggta agccctgagg	
				gttccctgat aacaacttg agaccaggat ttttggctc cctcactga tggacaagga	
				ggctctgtgc aaagaagaat ccaataagca catattgagc acctgtgta tatgcagtat	
				tgagcactgt aggcaagacc caagaaagag aaggagccat ctccatctg aaggaactca	
				aagactcaag tgggaacgac tgggcactgc caccaccaga aagctgttgc acgagacggt	
				cgagcagggt gctgtgggtg atatggacag cagaaggggg agaccaaggt tccagctcaa	
				ccaataacta ttgcacaacc acctgtcct gcctcagttc cctttatgt aacatgaagt	
				cgttgtgagg gtaaaaggca gtaacaggta taaagtactt agaaaagcaa aggtgtctac	

48	600	Bradykinin B2 Receptor	NP_000614.1	<p> gacatgtga ggcataccta cgcagacgta actggggatat gttactata agaaaaagac actgaggtct agaaatagct ccgtggagca gaatacgtat tgggagccgg tggcgggtg aagcaccagt gtctggcaca cagtagtgct tcattggctc cttccacct gtcattccca ccaccctgag gcccacacg ccacacacac aggagcattt ggagagaagg ccatgtcttc aaagtctgat ttgtgatgag tcagaggaag atatttcaa tcggtcttgc ccagaggatc acagtgtga gacccccac caccagcggg taccttgaa gggggagagt gcaggcctgc tcagggactg ttcctgtctc agcaaccaag ggattgttcc tgtcaatcaa tggtttatg gaaggtggcc cagtatgagc ctagaagag tgtgaaagg aatggcaatg tgttcacca tcggcagtgc caggcagca ctattcact tgataaatga atattatta gctggtttga gagctagaac ctggagagct agaacttga gaactagaac ctggagggtc agaacttga gaggctagaa ccaagaaggg ctagaacctg gaggggctag aacctagaga agctaaaacc tgagctagaa gctggaggac tagaacctgg agggctgaa tctgaaggc tagaacctgg agggctggaa tctggagagc tagaacctgg agggctagaa cctggaggc tagaacctg aaggctaga acctgaggg ctggaactg gagagctaga acctggaggg ctagaacctg gagggtaga acctagaag gctagaacct ggagggtcag aacctggcag gtagaacct agaagggtc gaacctggag agccagaacc cggcaggct agaactggc agctagaac ctgtagagct agaactgga gagctagaac cggcaggct agaactggc agctagaac ctggagggaa tgaacctgga gggctagaac ctggagaatg agaaaaatt acatggcaaa gagccataa atcttgacca atccactct gaattttaa gcaaaagct gaaaaaaag attcctcct taccccacac cactcttct tccccacac cactctcct ctgctcagt aagtatctgg aggaagaaaa caggtgaaag aagaagtaa aacctttag tattagtatt agaatgaagt caaactgtc cacacatggt gaatgaaaa aaaaaaaag aggtgtgtt ttgtcacaca gggcagtcac tcagcacag agcacgtgat ggtctgagac tctcttaga gcagagctct gccgcaatg ccattgtggg atccacact ggtctgagg gcaactgagt ctgcgggaga agagcgccc tatgcatggt tagatgccc tgataaaga catctgtcct gtgaaagact caatgagctg ttatgttga aacagggaag attcacatc caaacgagaa aatcatgtaa acatgtgtct tttctgtaga gcataataa tggatgaggt ttttgcaaaa aaaaaaaaa aaa </p>	Homo sapiens
49	635	Beta-1 adrenoceptor	NM_000684	<p> tgcataccgc gccgggctt ctgggggtgt ccccaaccac ggccagccc tgccacacc A ccgcgcccg gccctccgag ctgcggcatg gcgcggggt gctgctctg ggcgctccg agcccggtaa cctgtgtctg gccgcacgc tccccagcg gcgcgccacc gcgcgcggc tgctgtgccc cgcgtcgcc cccgcctcgt tgcgtcctcc cccagcgaa agccccgagc cgctgtctca gcagtgga cggggcatgg gctgctgat ggcgtcatc gtgctgctca tcgtggcggg caatgtgtg gtgcatcgtg ccatgcgcaa gacgcgcgg ctgcagcgc </p>	Homo sapiens

50	Beta-1 adrenoceptor	NP_000675.1	<p> taccacacct cttcatcatg tccctggcca ggcgcgacct ggtcatgggg ctgctggtgg tgccgttcgg ggccaccatc gtggtgtggg gccgctggga gtacggctcc ttcttctgcg agctgtggac ctagtggag gtgctgtgcy tgacggccag catcgagacc ctgtgtgtca ttgccctgga ccgtacctc gccatcacct cgccttcctg ctaccagagc ctgctgacgc ggcgcgggc gggggcctc gtgtgacccg tgtgggacct ctcggccctg gtgtccttcc tgccatcct catgactgg tggcgggcg agagcgca ggcgcgcgc tgctacaaag acccaagt ctgcgactc gtcaccaacc ggccctacgc ggcgtgttc cgcgagggcc ccttctacgt gccctgtgc atcatggct tctgttacct cgggtgttc cgcgagggcc agaagcaggt gaagaagatc gacagctcg aggcctgtt cctcgggcg ccaagcgccg cgccctcgcc ctgcctcgc cccgtcccg cgcgcgcgc gccgcgcga ccccgcgcc cgccgcgcgc cgccgcacc gcccgctgg ccaacggcg tgcgggtaag cggcgccct cgccctcgt ggccctacgc gacgagaag cgctcaagac gctgggcatc atcatggcg tcttcacgt ctgctggctg ccttcttcc tggccaaagt ggtgaagcc ttccaccg agtgtgtcc cgaccgctc ttcgtctct tcaactgctt gggctacgc aactggcct tcaaccccat catctactgc cgagcccg acttcgcaa ggccttcag gactgctct gctgcgcgc cagggtgccc cgccggcgcc acgcgaccca cggagacgg cgcgcgccct cggtctgtct ggccggccc ggaccccg catgcgcgc gccgcctcg gacgacgag acgacgatgt cgtcggggc agccgcgcgc cgcgctgtct ggagccctgg gccggctga acggcgggc ggccgggac agcgactcga gcctggaga gccgtgcgc cccggcttcg cctcggaatc caaggtgtag ggccggcg gggcgcgga ctcgggcac ggcctccag gggaacgag agatctgtgt ttacttaaga cgcgactcag tgcgaactcga agccacaat cctcgtctga atcatccgag gcaaaagaa agccacgga ccgttgaca aaagggaaa tttgggaag gatgggagag tggcttctg atgtctctg ttg MGLMALIVL MGAGVILGA SEPNLSSAA PLPDGAATAA RLIVPASPPA SLLPPASEP EPLSQWTAG P WGRWEYGSFF CELWTSVDVL CVTASIERLC VIALDRYLAI TSPFRYQSL TRARAGLVC TVWAI SALVS FLPILMHWNR AESDEARRCY NDPKCCDFT NRAYAIASSV VSFYVPLCIM AFVYLRVRE AQKVKKIDS CERRELGGEA RPPSPSPSPV PAPAPPPOP RPAATAATAP LANGRAGKRR PSRLVALREQ KALKTLGIIM GVFTLCWLPE FLANVKAFF RELVPDRLEFV FFNWLGYANS AFNPIIYCRS PDFRKAFOGL LCCARRAARR RHATHGDRPR ASGCLARPGP PPSPGAASDD DDDVVVGATP PARLLEPWAG CNGGAADSD SSLDEPCRPG FASESKV actgcgaagc ggcttcttca gagcacgggc tggaaactggc aggcacggc agcccttagc A accgcacaag ctgagtgtgc aggcagatc ccacacacac ccacacaca gccgctgaat gaggtctcca ggcttcgct cgccggccgc agagcccgcc cgtgggtccg cccgctgag cgcccccagc cagtgcgctt acctgcaga ctgcgcgcca tggggcaacc cgggaacggc agcgccttct tctggcacc caatagaagc catgcgcgg accacgact caccgacaa agggacgag tgtgggtgtt ggcatatggc atcgtcatgt ctctcatgt cctggccatc gtgtttggca atgtgctgtt catcacagc attgccaagt tcgagcgtct gcagacggc accaactact tcatcactc actggcctgt gctgatctgg tcatgggctt ggcagtgtg cccttgggg cgcccatat tcttatgaa atgtggactt ttggcaactt ctggtgcgag ttttggactt ccattgatgt gctgtgcgtc acggccagca ttgagacctt gtgctgcatc </p>	Homo sapiens
51	Beta-2 adrenoceptor	NM_000024	<p> taccacacct cttcatcatg tccctggcca ggcgcgacct ggtcatgggg ctgctggtgg tgccgttcgg ggccaccatc gtggtgtggg gccgctggga gtacggctcc ttcttctgcg agctgtggac ctagtggag gtgctgtgcy tgacggccag catcgagacc ctgtgtgtca ttgccctgga ccgtacctc gccatcacct cgccttcctg ctaccagagc ctgctgacgc ggcgcgggc gggggcctc gtgtgacccg tgtgggacct ctcggccctg gtgtccttcc tgccatcct catgactgg tggcgggcg agagcgca ggcgcgcgc tgctacaaag acccaagt ctgcgactc gtcaccaacc ggccctacgc ggcgtgttc cgcgagggcc ccttctacgt gccctgtgc atcatggct tctgttacct cgggtgttc cgcgagggcc agaagcaggt gaagaagatc gacagctcg aggcctgtt cctcgggcg ccaagcgccg cgccctcgcc ctgcctcgc cccgtcccg cgcgcgcgc gccgcgcga ccccgcgcc cgccgcgcgc cgccgcacc gcccgctgg ccaacggcg tgcgggtaag cggcgccct cgccctcgt ggccctacgc gacgagaag cgctcaagac gctgggcatc atcatggcg tcttcacgt ctgctggctg ccttcttcc tggccaaagt ggtgaagcc ttccaccg agtgtgtcc cgaccgctc ttcgtctct tcaactgctt gggctacgc aactggcct tcaaccccat catctactgc cgagcccg acttcgcaa ggccttcag gactgctct gctgcgcgc cagggtgccc cgccggcgcc acgcgaccca cggagacgg cgcgcgccct cggtctgtct ggccggccc ggaccccg catgcgcgc gccgcctcg gacgacgag acgacgatgt cgtcggggc agccgcgcgc cgcgctgtct ggagccctgg gccggctga acggcgggc ggccgggac agcgactcga gcctggaga gccgtgcgc cccggcttcg cctcggaatc caaggtgtag ggccggcg gggcgcgga ctcgggcac ggcctccag gggaacgag agatctgtgt ttacttaaga cgcgactcag tgcgaactcga agccacaat cctcgtctga atcatccgag gcaaaagaa agccacgga ccgttgaca aaagggaaa tttgggaag gatgggagag tggcttctg atgtctctg ttg MGLMALIVL MGAGVILGA SEPNLSSAA PLPDGAATAA RLIVPASPPA SLLPPASEP EPLSQWTAG P WGRWEYGSFF CELWTSVDVL CVTASIERLC VIALDRYLAI TSPFRYQSL TRARAGLVC TVWAI SALVS FLPILMHWNR AESDEARRCY NDPKCCDFT NRAYAIASSV VSFYVPLCIM AFVYLRVRE AQKVKKIDS CERRELGGEA RPPSPSPSPV PAPAPPPOP RPAATAATAP LANGRAGKRR PSRLVALREQ KALKTLGIIM GVFTLCWLPE FLANVKAFF RELVPDRLEFV FFNWLGYANS AFNPIIYCRS PDFRKAFOGL LCCARRAARR RHATHGDRPR ASGCLARPGP PPSPGAASDD DDDVVVGATP PARLLEPWAG CNGGAADSD SSLDEPCRPG FASESKV actgcgaagc ggcttcttca gagcacgggc tggaaactggc aggcacggc agcccttagc A accgcacaag ctgagtgtgc aggcagatc ccacacacac ccacacaca gccgctgaat gaggtctcca ggcttcgct cgccggccgc agagcccgcc cgtgggtccg cccgctgag cgcccccagc cagtgcgctt acctgcaga ctgcgcgcca tggggcaacc cgggaacggc agcgccttct tctggcacc caatagaagc catgcgcgg accacgact caccgacaa agggacgag tgtgggtgtt ggcatatggc atcgtcatgt ctctcatgt cctggccatc gtgtttggca atgtgctgtt catcacagc attgccaagt tcgagcgtct gcagacggc accaactact tcatcactc actggcctgt gctgatctgg tcatgggctt ggcagtgtg cccttgggg cgcccatat tcttatgaa atgtggactt ttggcaactt ctggtgcgag ttttggactt ccattgatgt gctgtgcgtc acggccagca ttgagacctt gtgctgcatc </p>	Homo sapiens

52	640	Beta-2 adrenoceptor	NP_000015.1	<p> gagtggtgc gctactttgc cattacttca cctttcaagt accagagcct gctgaccaag aataaggccc gggtgatcat tctgatggtg tggatttgtt cagcccttac ctcttcttg ccattcaga tgcactggta cgggccacc caccagaag ccatcaactg ctatgccaat gagacctgt gtgacttctt caccgaacaa gcctatgcca ttgcctcttc catcgtgtcc ttctacgttc cctggtgat catggtcttc gctactcca gggtctttca ggaggccaaa aggcagctcc agaagattga caaatgtag ggcctctcc atgtccagaa ccttagccag gtggagcagg atggcgagac gggtcatgga ctcccgatc cttccaagtt ctgcttgaag gagcacaag ccctcaagac gttaggcac atcatgggca cttcacccct ctgctggctg ccctcttca tcttaacat tctgcatgt atccagata acctcatcg taaggagtt tacatctcc taaattggat aggtatgtc aattctggt tcaatcccc tatctactgc cggagcccg atttcaggat tgcctccag gagcttctgt gcctgcgag gctctctttg aaggcctatg ggaatggcta ctccagcaac ggaacacag gggagcagag tggatatcac gtggaacagg agaaagaaaa taaactgctg tgtgaagacc tcccaggcac ggaagactt gtggccatc aagttactgt gctagcgtat aacattgatt caaaggagag gaattgtagt acaaatgact cactgctgta aagcagttt tctactttta aagaccccc ccccccaac agaacactaa acagactatt taactgagg gtaataaact tagaataaaa ttgtaaaaa tgtatagaga tatgcagaag gaaggccatc ctctgcctt ttttatttt ttaagctgta aaaagagaga aaacttattt gagtattat ttgtatttg tacagttcag ttcctctttg catggaattt gtaagtttat gtctaaagag ctttagtctt agaggacctg agtctgctat atttcatga ctttccatg tatctacctc actatacaag tattaggggt aatataatgc tgctggtaat ttgtatctga aggagatttt ccttccatac ccttgagact tgaggatttt gagtatctcg gacctttcag ctgtgaacat ggactcttcc cccactcttc ttatttgctc acacgggta ttttaggcag ggatttgag agcagcttca gttgttttcc cgagcaagg tctaaagttt acagtaataa aaatgttga ccatg </p>	Homo sapiens
53	643	Beta-3 adrenoceptor	NM_000025	<p> SLIVLAIVFG NVLIVITAIK P FGNFWCEFWT SIDVLCVTAS SGLTSFLPIQ MHWYRATHQE RVFQEAQRQL QKIDKSEGRF TFTLCWLPFF IWIVHVIQD CLRRSSLKAY GNGYSSNGNT SQGRNCSTND SLL gctactctc ccccaagagc ggtggcaacg aggagattgg ggtgggggga ggtgagcgc A tctggctggg acagctagag aagatggccc aggtcgggga agtcgctctc atgccttgc gtccctccc ctgagccagg tgattggga gacccccctc ttcctctctt ccttaccgac ccacgcgcga ccgggggatg gctccgtggc ctacacagaa cagctctctt gccccatggc cggacctccc caccctggcg cccaataccg ccaacacag tgggctgcca ggggttcctg gggagggcgc cctagccggg gccctgctgg gctggccacc gtgggagga acctgctggt catcgtggcc atgccttgga ctccgagact ccagaccatg accaactgt tcgtgacttc gctggccgca gccgacctgg tgatgggact cctggtggtg ccgccggcgg ccacctggc gctgactggc cactggcctg tgggcgcccac tggctgcgag ctgtggacct cgtggtgact gctgtgtgtg accgcccaga tcgaaacctt gtgcgcccgt gccgtggacc </p>	Homo sapiens

Homo sapiens

55	688	Opsin, blue-sensitive	NM_001708	<p>CRCGRRLPPE PCAAARPALF PSGVPAARSS PAQPRLCORL DGASWGVs</p> <p>ggcatccatg agaaaatgt cggaggaaga gttttatbtg ttcaaaaata tctcttcagt A</p> <p>ggggccgtgg gatgggctc agtaccacat tgcccctgtc tgggcttctt acctccaggc</p> <p>agctttcatg ggcactgtct tctttatagg gtccccactc aatgccatgg tgcgtggtggc</p> <p>cacactggc tacaaaaagt tgcggcagcc cctcaactac attctggtca acgtgtcctt</p> <p>cggaggttc ctctctgca tcttctctgt tcttctctgtc ttctgtcgcca cgtgtaacgg</p> <p>atacttgctc ttccggtgcc atgtttgtgc ttgtgagggc ttccgtggcca ctgtagcagg</p> <p>tctggttaca ggatggctac tggccttctt ggcctttgag cgctacattg tcatctgtaa</p> <p>gcccttgggc aacttcgctc tcagctccaa gcctgcactg acggtggtcc tggctacctg</p> <p>gaccattggt attggcgtct ccctcccaacc ctctcttgcc tggagccggt tcatccctga</p> <p>gggacctgag tgttctctgt gccctgactg gtacaccgtg ggcacccaaat accgcagcga</p> <p>gtcctatacg tggttctctt tcatctctgt ctctattgtg cctctctccc tcatctgctt</p> <p>ctcctacact cagctgctga gggccctgaa agctgtttgca gctcagcagc aggagtcagc</p> <p>tacgacccag aaggtgaac gggaggtgag ccgcatggtg gttgtgatgg taggatcctt</p> <p>ctgtgtctgc tacgtgccct acggggcctt cgccatgtac atggtcaaca accgtaacca</p> <p>tgggctggac ttacggcttg tcaccattcc ttcattcttc tccaagagtg cttgcatcta</p> <p>caatcccatc atctactgct tcatgaataa gcagttccaa gcttgcatca tgaagatggt</p> <p>gtgtgggaag gccatgacag atgaatccga cacatgcagc tcccagaaaa cagaagtctc</p> <p>tactgtctcg tctaccaag ttggcccaaa ctgaggagccc aatattggcc tgtttgcaac</p> <p>agctagaatt aaatttact t</p>	Homo sapiens
56	688	Opsin, blue-sensitive	NP_001699.1	<p>MRKMSEEFY LFKNISSVGP WDGPQYHIAP VWAFLQAAF MGTVELIGFP LNAMVLVATL P</p> <p>RYKKLRQPLN YILNVSPGG FLCLIFSVFP VFVASCNGYF VFGRHVCALE GFLGTVAGLV</p> <p>TGWSLAFIAF ERYIVICKPF GNFRSSKHA LTVVLATWTI GIGVISPPFF GWSRFIPEGL</p> <p>QCSCGPDWYT VGTKYRSESY TWLFIFCFI VPLSLICFSY TQLLRALKAV AAQQQESATT</p> <p>QKAEREVSRM VVMVGSFCV CYVPYAAFAM YMVNRRNHGL DLRLVTIPSF FSKSACIYNP</p> <p>IYYCFMNKQF QACIMRMVCG KAMTDESDTC SSQKTEVSTV SSTQVGPN</p> <p>gagtatctgg atgtcttggga ttttcttccc attctgttct gttctgttct cctaatacca A</p> <p>tctcgttact agacgtaggc attggacgtg acaatcaact gcatttgaac tgagaagaag</p> <p>aaatattaaa gacacagtct tcagaagaaa tggctcaag gcagcctcac tcacctaact</p> <p>agactttaat ttcaatcaca aatgacacag aatcatcaag ctctgtggtt tctaacgata</p> <p>acacaaaata aggatggagc ggggacaact ctccaggaat agaagcattg tgtgccatct</p> <p>atattactta tgcgtgtatc atttcagtg gcatccttgg aatgctatt ctcatcaaa</p> <p>tctttttcaa gaccaaatcc atgcaaacag ttccaaatat ttctaccacc agcctggctt</p> <p>ttggagatct ttacttctg ctaacttgtg tggcagtgga tgcacctcac taccttgagc</p> <p>aaggatggct gttcggaaga attggttgtta aggtgctctc ttctatccgg ctacttctg</p> <p>ttgggtgtgc agtgtcaca ttaacaattc tcagcgctga cagatacaag gcagttgtga</p> <p>agccactga gcgacagccc tccaatgcca tctggaagc ttgtgtaaaa gctggctgcg</p> <p>tctggatcgt gtctatgata ttgtctctac ctgaggtcat attttcaaat gtatacactt</p> <p>ttcgagatcc caataaaaat atgacatttg aatcatgtac ctcttacctt gtctctaaga</p> <p>agctcttgca agaaatacat tctctgctgt gttctttagt gttctacatt attccactct</p> <p>ctattatctc tgtctactat tcttggattg ctaggacctt ttacaaaagc acctgaaca</p>	Homo sapiens
57	692	Bombesin Receptor Subtype-3	NM_001727		Homo sapiens

58	692	Bombesin Receptor Subtype-3	NP_001718.1	<p> tacctactga ggaacaaagc catgcccgta agcagattga atccccaaag agaattgcc gaacggattt ggtgttggtg gctctgtttg cctctgtgtg gttgccaaat cacctcctgt acctctacca ttcatcaact tctcaaacct atgtagaccc cctgcccattg catttcattt tcaccatttt cctcggggtt ttggctttca gcaattcttg cgtaaacccc ttgtctctct actggctgag caaaagcttc cagaagcatt ttaaagctca gttgttctgt tgcaaggcgg agggcctga gctcctgttt cctgacacct ctctaacac cttggtctgtg atgggaacgg tcccgggcac tgggagcata cagatgtctg aaattagtgt gacctgttc actgggtgta gtgtgaagca ggcagaggac agattctagc ttttcaagga aaaaatgtgc ttctctccc agcgtgtgta tccgactcta agctgtgtgc agg MAQRQPHSPN QTLISITNDT ESSSSVVSND NTNKGWSDN SPGIEALCAI YITYAVIISV P GILGNAILIK VFFKTKSMQT VPNI FITSLA EGDLLLLLTC VPVDATHYLA EGWLFGRIGC KVLSEIRLTS VGVSVFTLTI LSADRYKAW KPLERQPSNA ILKTCVRKAGC WVIVSMIFAL PEAFISNVYT FRDPKNMTF ESCTSYPSVK KLLQEIHSLL CFLVFIITPL SIISVYXSLI ARTLYKSTLN IPTREQSHAR KQIESRKRIA RTVLVLVALF ALCWLPNHLL YLYHSFTSQT YVDPSAMHFI FTIFSRVLAF SNSCVNPEAL YWLSKSQKH FKAQLFCCKA ERPEPPVADT SLTLAVMGT VPGTSGIQMS EISVTSFTGC SVKQAEPRF </p>	Homo sapiens
59	729	CXC Chemokine Receptor 5	NM_001716	<p> gctgccaact ctctagaggc acctggcggg gagcctctca acataagaca gtgaccagtc A tggtgactca cagccggcac agccatgaac taccgcgttaa cgctggaat ggacctcgag aacctggagg acctgtcttg ggaactggac agattggaca actataacga cacctccctg gtgaaaaatc atctctgccc tggcacagag gggccctca tggcctcctt caaggccgtg ttcgtgcccc tggctacag cctcatcttc cctcctggcg tgatcgcaa cgtcctggtg ctggtgatcc tggagcggca cggcagaca cgcagttcca cgagacett cctgttccac ctggccgtgg ccgacctcct gctggtcttc atcttgcct ttgccgtggc cgagggtctt gtgggctggg tcttggggac ctctctctgc aaaactgtga ttgccctgca caaagtcaac ttctactgca gcagcctgct cctggcctgc atgcctgtg accgctacct ggcattgtc cacgccgtcc atgcctaccg ccaccgcgc ctctctcca tccacatcac ctgtgggacc atctggctgg tgggctcct ccttgccttg ccagagattc tcttgcaca agtcagccaa ggccatcaca acaactcct gccagttgc accttccc aagagaacca agcagaaacg catgccgtgt tcacctccc attcctctac catgtggcg gattcctgct gccatgctg gtgatgggt ggtgctacgt gggggtagt cagaggttg gccaggcca gcggcgccct cagcggcaga aggcagtcag ggtggccatc ctggtgaca gcatcttctt cctctgctgg tcacctacc acatcgtcat ctctctggac acctggga accctggga ggtgaaggc cgtggacaat acctgcaagc tgaatggctc tctcccgtg gccatcaca tgtgtgagtt cctgggcctg gcccactgct gctcaaccc catgctctac acttgcgcg gcgtgaagtt ccgagtgac ctgtcgggc tctgacgaa gctgggctgt accggccttg cctcctctg ccagctcttc cctagctggc gcaggagcag tctctctgag tcagagaatg ccacctctct caccacgttc taggtcccag tgtcccctt tattgtgct ttctctgg gcaggcagtg atgctggatg ctccttccaa caggagctgg gatacctaagg gctcaccgtg gctaagagtg tcttaggagt atcctcattt ggggtagcta gaggaaccaa cccccatttc tagaacatcc ctgccagctc ttctgcccgc cctggggcta ggtggagcc cagggagcgg aaagcagctc aaaggcacag tgaaggctgt ccttaccat ctgaccccc ctgggctgag agaacctcac gcacctccca </p>	Homo sapiens

60	729	CXC Chemokine Receptor 5	NP_001707.1	MNYPLTLEMD IFLLGVIGNV LCKTVIALHK ALPEILPAKV VHRLROAQR PVAITMCEFL SESENATSLT	LENLEDFWE LVLVILERHR NFYCSSLL SQGHNNSLP RPQRQKAVRV GLAHCCCLNPM TF	LDRLDNVNDT QTRSSTETFL ACIAVDRYLA RCTFSQENQA AILVTSIFEL LYTFAGVKFR SDLSRLTLKL	SLVENHLCPA FHLAVADLLL IVHAVHAYRH ETHAWFTSRF CWSPYHIVIF GCTGPASLCQ LFPSWRRSSL	TEGPLMASFK VFILPFAVAE RRLLSIHITC LYHVAGFLLP LDTLARLKAV DNTCKLNGSL LFP	Homo sapiens
61	735	C-C Chemokine Receptor 1	NM_001295	ggcacgagcc ggatggaaac atgcaactcc tgtactcctt tgcaatacaa acctgctctt tttttggtga agatcttttt ttgccttgcy tggccatctt accacacctg	cagaaacaaa tccaaacacc gtgccagaag ggatattgtc gaggctaaaa cctgttcacg tgccatgtgt catcatcctg ggcacgggacc ggcttccatg cagccttcac	gacttcacgg acagaggact gtgaacgaga attggcctgg aacatgacca cttcccttct aagatcctct ctgacgattg gtcacttttg ccaggcttat tttcctcacg	acaaagtccc atgacacgac gggcctttgg ttggaacacat gcatacact ggatcgacta ctgggtttta ttacacagcg ggccatcgtc cagcatcatc gacccaatgg aagtggaag	ttggaaccag cacagagttt ggcccaactg cctggtggtc cctgaacctg caagttgaag ttacacagcg gtgacagcg gtgacagcg cagcatcatc gacccaatgg agatgggaag	Homo sapiens

tcctaatacat ccaatgtctca agaaaacaact tctactttctg cccttgccaa cggagagcgc
 ctgcccctcc cagaacacac tccatcagct taggggtctg tgacctccac agcttcccct
 ctctctctct gccacctgt caaacaagc cagaagtga gcaccaggg atgagtggag
 gttaaaggctg agaaaaggcc agctggcagc agagtgtggc cttcggacaa ctacgtccct
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 aagaaaagag ctttctccc gaacccaag gagggagatg gatcaataa acccggcggt
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 atgggaggtt gtggcattg atgggaagg aggtggctt gtcccctct cactccctc
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 gaaacacact gaggcaggga agtcccagg ccccgccctg ccccgctgag
 gatgtcactc agatgaacc gcaggaaagt ctccgtgtc tgttgctca cctggggtgt
 gggaggcccg tccggcagtt ctgggtgctc ctaccact cccagcctt tgatcaggtg
 gggagtcaag gacccctgcc ctgtcccac tcaagccaag cagccaagt ccttgggagg
 cccactggg gaaataacag ctgtggctca cgtgagatg tcttcacggc agacaacga
 ggaagcccta agacgtcct ttttctctg agtatcctc cgcaagctgg gtaatcgatg
 ggggagtctg aagcagatgc aaagaggcaa gaggtggtat tttgaattt cttttaata
 aaaaaggcacc tataaaacag gtcaatacag tacagtcagc acagagaccc ccggaacaa
 cctaaaaatt gtttcaaat aaaaaccaag aagatgtctt caaaaaaaaa aaaaaaaaa
 aaaa

62	C-C Chemokine Receptor 1	735	NP_001286.1	<p>ctctgaact gaacctctt ggcctggtat tgccttctt ggtcatgac atctgtaca caggattat aaagattctg ctaagacgac caaatggaa gaaatccaa gctgtccgtt tgattttgt catcatgac atctttttt tcttttgag ccctacaat ttgactatac ttatttctgt ttccaagac ttccctgttca cccatgagt tgagcagagc agacatttgg acctggctgt gcaagtgacg gagtgatcg cctacacga ctgctgtgtc aaccagtg tctacgctt cgttggtag aggttcogga agtctcctg gcacaggtg gagaggtg tgctgtgca cctggttaa tggctccct tgcctcctg gacaggtg gagaggtgca gctccacatc tccctccaca ggggagcatg aactctctg tgggttctga ctcagaccat aggaggccaa cccaaataa gcaggcgtga cctgccagg cactgagcc agcagcctg ctctccagc caggttctga ctctggcac agcatggagt cacagccact tgggtagag agggaatgta atggtggcct ggggcttctg agcttctgg gcttccagc ttttccatga acttctccc tggtagaag aagatgaatg agcaaaaca aatattccag agactgggac taagtgtacc agagaagggc ttggactcaa gcaagattc agattgtga ccattagcat ttgtcaacaa agtcaccac ttcccactat tgcctgaca accaattaa accagtagt ggtgactgtg ggtccattc aaagtgaat cctaaagccat gggagacact gatgtatgag gaatttctgt tcttccatc aactccccc cccgccacc tccactgcc aagaacttgg aaatagtgat ttccacagt actccactc agtcccaga gccaatcagt agccagcatc tgcctccct tcactccac cgcaggattt ggcctcttgg aatcctggg aacatagaac tcatgacgga agagttaga cctaacgaga aatagaaatg gggaaactac tctgggcagt ggaactaaga agcccttag gaagaattt tatatccact aaaaataac aattcagga gtgggctaag caggggcat atgaataaca tgggtgctt cttaaaaatg ccataaagg gagggactca tcatttccat ttaccctct tctctgacta ttttccagaa tctctctct tttcaagtg ggtgatagt tggtagattc taatggctt attgcagcga ttaataacag gcaaaaggaa gcagggttgg tttccctct ccatcttga aaaaaaaa aaaaa atgggtcaga gttccgactg ccatcttga cttgtcaga aaaaaaaa aaaaa QYKRLKNMYS IYLLNLAISD LFLFTLPFW IDYKLDDWV FGDAMCKILS GFYTGLYSE IFFIILLTID RYLAIHVAVF ALRARTVTFG VITSIIWAL AILASMPGLY FSQTQWETH HTCSLHFPHE SLREWKLFQA LKLNLFGLVL PLLVMIICYT GIILLRRP NEKSKAVRL IFVIMIIFFL FWTPYNLTIL ISVFQDFLFT HECEQSRHLD LAVQVTEVIA YTHCCVNPVI YAFVGERFRK YLRQLFHRV AVHLVKWLPF LSVDRLEVS STSPSTGEHE LSAGF</p>	Homo sapiens
63	C-C Chemokine Receptor 3	737	NM_001837	<p>tttttctct tctatcacg ggagaagtga aatgacaacc tcactagata cagttgagac A ctttgttacc acatccact atgatgact gggcctgctc tgtgaaaaa cgtataccag agcactgatg gccagtttg tgcctccctg tgaactccctg gtgttccact tgggcctctt gggcaatgtg gtggtggtga tgactcccat aaaaatacag aggtcccgaa ttatgaccaa catctactg ctcaacctgg ccatttcgga cctgctctc ctcgtcacc ttccattctg gatccactat gtcagggggc ataactgggt ttttggccat ggcattgtga agctcctc agggttttat cacacaggtc tgtacagcga gatcttttc ataactctgc tgacaatcga caggtactg gccattgtcc atgctgtgt tgccttctga gcccgactg tcacttttgg tgtcatcacc agcatcgtca cctggggcct ggcagtgtca gcagctctc ctgaatttat cttctatgag actgaagagt tgttgaaga gactcttgc agtgccttt acccagagga</p>	Homo sapiens

64	737	C-C Chemokine Receptor 3	NP_001828.1	<p>t</p> <p>tacagtatat agctggaggc atttccacac tctgagaatg accatcttct gtctcgttct ccctctgctc gttatggcca tctgtacac aggaatcatc aaaacgtgc tgaagtgcc cagtaaaaaa aagtacaagg ccacgggtc ctttttgc atcatggcg tgttttcat tttctggaca ccctacaatg tggctatct tctctctcc tatcaatcca tcttattgg aaatgactgt gagcgagca agcatctga cctggatcag ctggtagac aggtgategc ctactccac tctgcatga accggtgat ctacgcttt gtggagaga ggtcccgaa gtacctgagc cactcttcc acaggcact gctcatgac ctgggcagat acatcccat ccttctagt gagaagctgg aaagaaccag ctctgtctct ccattccacag cagagccgga actctctatt gtgttttagg tcagatgcag aaaattgctt aaagaggag gaccaaggag atgaagcaaa cacattaagc cttccacact cacctctaaa acagtctctc aaacttccag</p>	Homo sapiens
65	738	C-C Chemokine Receptor 4	NM_005508	<p>t</p> <p>kyrrlrmtin iyllnlaisd llflvtlfpw ihvvrghnvw fghgmcklls gfyhtglyse iffiilltid rylaivhavf alrartvtfeg vitsivtwgl avlaalpefi fyeteelfee tlcsalyped tvyswrhft lrmthfclvl pllvmaicyt giiktllrclp skkykairl ifvimauffi fwtpynvail lssyqsilfg ndcerskhld lmlvtevia yshccmnpvi yafvgerfrk ylrhffhrhl lmhlgrypf lpseklerts svspstaepe lsivf cgggggtttt gatctcttc ccttctctt cttcccttc tcttctctt cctccctccc A tctctcatt ccttctctt tctccctcag tctccacatt caacattgac aagtcattc agaaaagcaa cctgctctg gttgggccc gactgctt gaggagcctg tagagttaaa aaatgaacc cagcatata cagatacca cctcgatga agcatatac agcaattact atctgatga aagtatccc aagccttga ccaaaagg catcaaggca ttgggggagc tcttctgccc cccactgtat tcttgggtt ttgtattgg tctgcttga aattctgtg tggttctggt cctgttcaaa tacaagcggc tcaggctcat gactgatgtg tactgtctc accttgccat ctcggatctg cctctctgt tttccctccc tttttggggc tactatgcag cagaccagt ggtttttgg ctaggctctgt gcaagatgat ttcctggatg tacttggtg gcttttacag tggcatatc tttgtcatg tcattgagcat tgatagatag ctggcgatg tgcacgagg gtttctctg agggcaagg ccttgacta tggggtcatc accagtgtg ctacatggtc agtggtgtg ttcgctccc ttcctggctt tctgttcagc acttggtata ctgagcgcaa ccatacctac tgcaaaacca agtactctt caactccag acgtggagg ttctcagctc cctggaaatc aacattctg gattggtgat ccccttaggg atcatgctgt tttgctactc catgatcatc agaccttgc agcatgtaa aaatgagaag aagaacaagg cgtgaagat gatcttggc gtgggtgtcc tcttctctg gttctggaca ccttacaaca tagtgtctt cctagagacc ctggtggagc tagaagtcct tcaggactgc accttgaaa gatacttggg ctatgcatc caggccacag aaacttggc tttgtttcac tgtgctcta atcccatcat ctacttttt ctgggggaga aatttcgcaa gtacatccta cagctctca aaacctgcag gggcctttt gtgctctgcc aatactgtg gctcctccaa attactctg ctgacacccc cagctcatct tacacgcagt ccaccttga tcatgatctt catgatgctc tgtaggaaaa atgaaatggt gaaatgcaga gtcaaatgaac ttttccacat tcagagctta ctttaaaatt ggtattttta ggtaagagat ccctgagcca gtgtcaggag gaaggcttac accacagt gaaagacagc ttctctct ctaggagct tttctctcc cactagacaa</p>	Homo sapiens

66 738 C-C Chemokine Receptor 4 NP_005499.1

Homo sapiens

gtccagcctg gaaagggttc acctgggctg aggcattcctt cctcacacca ggcttgccctg
caggcatgag tcagctctgat gagaactctg agcagtgcctt gaatgaagtt gtaggtaata
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cagagtactg gctgatggag taaatcgcta ccttttgctg tggcaaatgg gccccg
VLFVFKYKRL LDESIYSNY LYESIAPKPT KEGIKAFGEL FLPLYSLVF VFGLGNSVV P
FYSGIFFVML RSMIDVYLIV LAISDLLFVF SLPFWGYAA QWVFGGLGC KMISWMYLVG
ERNHTYCKTK YSLNSTWKV LSSLEINILG LVIPLGMLF TWSMIIRTIQ HCKNEKNKA
VKMIFAVVVL FLGFWTPYNI VLFLETLVEL EVLQDCTFER YLDYAIQATE TLAFVHCCLN
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67 741 C-C Chemokine Receptor 7 NM_001838

Homo sapiens

gtgagacagg ggtagtcga ggcggggcac agccttcctg tgtgggttta cgcgccagag A
agcgtcatgg acctgggaa accaatgaa agcgtgctgg tgggtgctct ccttgctatt
ttccaggatg gcctgtgtca agatgaggtc acggacgatt acatcgagga caacaccaca
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tggttcctcc ctatcatgta ctccatcatt tgtttcgtgg gcctactggg caatgggctg
gtcgtgttga cctatatcta ttccaagagg ctcaagacca tgaccgatac ctacctgctc
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gctggagtga aggggccaaag gaggtgtagt gaaagggcg tgggagtggc ctgaagagtc
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ccaggcctta tctccaagac cagagatagt ggggagactt cttggcttgg tgaggaaaaag
cggacatcag ctggtcaaac aaactctctg aacctctcc tccatcgttt tcttactgt
cctccaagcc agcgggaatg gcagctgcca gcggccctca aaagcacact catccccca
cttgccgcgt cgcctccca gctctcaac aggggagagt gtggtgtttc ctgcaggcca

68	741	C-C Chemokine Receptor 7	NP_001829.1	<p>ggccagctgc ctccgctga tcaagccac actctggct ccagagtgg gatgacatgc actcagctct tggctccact gggatggag gagagacaa gggaaatgtc agggcgggg aggtgacag tggcgccca agccacag cttgtcttt gtcttctc acagggactg aaaacctct ctcagtctt gcttcgatt cgttaagaga gaaacattt acccacacac agataaagt tcccttgag gaaacacag ctttaaaag MDLGRPMKSV LVVALLVIFQ VCLCQDEVTD DYIGDNTVD YTLFESLCSK KDVRFKAWF P LPIMYSIICF VGLLGNLWV LTYIYFKRLK TMTDTYLLNL AVADILFLIT LPFWAYSAK sapiens SWVFGVHFEK LIFAIYKMSF FSGMLLLCI SIDRYVAIVQ AVSAHRHAR VLLISKLSCV GIWILATVLS IPELLYSDLQ RSSSEQAMRC SLITEHVEAF ITIQVAQWVI GFLVPLLAMs FCYLVIIRTL LQARNFERNK AIKVIIVAVV VFIVFQLPYN GVLAQTVAN FNITSSTCEL SKQLNIAYDV TYSLACVRCC VNPFLYAFIG VKFRNDLFKL FKDLGCLSQE QLRQWSSCRH IRRSMSVEA ETTTFSP</p>	Homo sapiens
69	742	C-C Chemokine Receptor 8	AI733823	<p>TTTAAATTTA AAACTTTAT TGGATAGCA TGTTAGCAGC AGTGAACAGG GCATGGCACA A GAAGGTTTCC AAACAAGTT TAGCATGAAG GATGCCATAT GCTGTTGCCA ACAACTAGAA CACGGTGACT AAAGACACAG TTCTGAATGT CCAGCACAAAC CTCTGGCCTG CAACTATGTT CAGTGATGAT GATAAACAAAG GTGGTGACTT GGAAGGAATC CCTATGTCAA GTGAGAAAAA AAAATGATGT CTGACCTCCT TATATATGTA AAAATATAC CTTCAGAGTC CGTCAGTAAG CTGGAAGAAG TGGATGTGA AGTTTTTAAC ATCGATGATG GGTCTCCAGT GTTTCATCAA CCCATGGTGA AATAGCTGAA CGTTCTGAA TCGTAATAGT TCCTAATAGT GAAGACATTA ACATTGCAGA AAAAGTGCCT ACAGATTATA TGGTGAATTA AGTGATGGG CTTCTTGAAG GACTAGACGA GTGTGTATTC AAAACAGAAC AAGAAATCAC GTCAGTTTAT TGCCAATAT GCTGTGCCA ACACCTTAGAA CACAATCACT GGAGACACAG TTGTGCGTGC A CTGGCACAC CTTCCAGCTG TGCTATGTT CAGTGATGAT GATGAGCAAG GTGTGACTT TGAAGGATTT TGTATATCAA GTGAAAAGAA ATGATATCTG ACCTCCTTAC ATATCTAAAA CATATACCTT CAAAATCCAT CAATAAGCTG AAAGAATAG ATATCAAAGA ATATTTTAAC ATCATTAATG AGGCTCCAGT TATTCAATCA TTGACCAATG GTAATATAGC TGAATGATT CTGAATCAAG CTGATTATGA TAATAGTGAT GATGAAGATG ATGTTATATC TGCAGAAAAA GTGCCTATAA ATGACACAGT GAAA</p>	Homo sapiens
70	742	C-C Chemokine Receptor 8	LG6770	<p>ctccagagag gctgctgctc attgagctgc actcacatga ggatacagac tttgtgaaga A aggaattggc aacactgaaa cctccagaa ctaaggtgtc actaaggtcc cgctgccttg atgattata cactgacct cagtgtgaca acagtgaacc actactata cctgatatc ttctcaagcc cctgtgatgc ggaacttatt cagacaaatg gcaagttgct ccttgcctgc ttttattgcc tcctgtttgt attcagtcct ctgggaaca ccttgggtcat cctggtcctt gtggtctgca agaagctgag gagcatcaca gatgtatacc tcttgaacct ggcctgtctt gacctgttt ttgtctctc ctccccctt cagactact acctgtgga ccagtgggtg tttgggactg taatgtgcaa agtgggtctt ggcttttatt acattggctt ctacagcagc atgtttttca tcacctcat gagtgggac aggtacctgg ctgttgtcca tgcctgtgat gcccataag ttaggacgat caggatgggc acaacgtgtt gacctggcagt atggctaacc gccattatgg ctaccatccc attgctagt ttttaccag tggcctctga agatgggtgtt ctacagtgtt attcatttta caatcaacag accttgagt ggaagatctt caccacactc aaaaatgaaca ttttaggctt gttgatocca ttcaccatct ttatgttctg ctacattaaa</p>	Homo sapiens
71	742	C-C Chemokine Receptor 8	NM_005201	<p>ctccagagag gctgctgctc attgagctgc actcacatga ggatacagac tttgtgaaga A aggaattggc aacactgaaa cctccagaa ctaaggtgtc actaaggtcc cgctgccttg atgattata cactgacct cagtgtgaca acagtgaacc actactata cctgatatc ttctcaagcc cctgtgatgc ggaacttatt cagacaaatg gcaagttgct ccttgcctgc ttttattgcc tcctgtttgt attcagtcct ctgggaaca ccttgggtcat cctggtcctt gtggtctgca agaagctgag gagcatcaca gatgtatacc tcttgaacct ggcctgtctt gacctgttt ttgtctctc ctccccctt cagactact acctgtgga ccagtgggtg tttgggactg taatgtgcaa agtgggtctt ggcttttatt acattggctt ctacagcagc atgtttttca tcacctcat gagtgggac aggtacctgg ctgttgtcca tgcctgtgat gcccataag ttaggacgat caggatgggc acaacgtgtt gacctggcagt atggctaacc gccattatgg ctaccatccc attgctagt ttttaccag tggcctctga agatgggtgtt ctacagtgtt attcatttta caatcaacag accttgagt ggaagatctt caccacactc aaaaatgaaca ttttaggctt gttgatocca ttcaccatct ttatgttctg ctacattaaa</p>	Homo sapiens

72	C-C Chemokine Receptor 8	NP_005192.1	<p>atctcgacc agctgaagag gtgtcaaaac cacacaaga ccaaggccat caggttggtg</p> <p>ctcattgtgg tcattgcatc tttaactttc tgggtcccat tcaactgtgt tcttttcttc</p> <p>acttccttgc acagtatgca catcttgatg ggatgtagca taagccaaca gctgacttat</p> <p>gccaccatg tcacagaaat cattctctt actcactgt gctgaaccc tgttatctat</p> <p>gcttttgttg gggagaagtt caagaaacac ctctcagaaa tattcagaa agttgcagc</p> <p>caaatcttca actacctagg aagacaaatg cctagggaga gctgtgaaa gtcacatcc</p> <p>tgccagcgc actcctccg ttctccagc gtgagtaca tttgtgagg atcaatgaag</p> <p>actaaatata aaaaacattt tcttgaatgg catgtagtga gcagtgcagca aggtgtggtg</p> <p>tgtgaaaggt ttccaaaaaa agttcagcat gaagatgcc atatatgttg ttgccaacac</p> <p>ttaaaacaca atgactggag acatagtgtt gactcctgg cacacatca agcctgtgat</p> <p>ttagtttat gatgatgttg aacaaagtgt aacttaaa gattctgtat gccaaagtga</p> <p>aaaaaaagat gtctgacctc ctccatagtc aaaaatatc ctccagagac tgtcagtagg</p> <p>ctggaagaag tggatatgga agttttgaca tcaatgatga ggctccagtt gtcctatgcat</p> <p>tgactgatgg tgaatggct ggagtgttc tgaatcaagg tgatgtgat tatagtgaca</p> <p>atgaagatga tgcattaat actgcataaa aagtgcctgt agatgacatg gtgaaaaatat</p> <p>ttgacaggct tatggaagga ctacagcagc acgcattcat aacagaacaa gaaattatct</p> <p>cagcttataa aatcaaacag agactctag acaaaaacca ttgtgtatga ggagatgcc</p> <p>tctagaagag acgtttaaaa gccatcaaac acattcctc atctccctg gaggaccac</p> <p>ttcctgatcc ctcaactgtg tctgatgttt cttctcatgt aagaaataaa aataaaaaat</p> <p>aaaaaaatat atattggatg ttaactacag gaaaaataa aaaaatatat agtggacagt</p> <p>aacctttcaa tcaaaactca gtatcataag tagagactga aaacttgccg ttatgtattg</p> <p>ttgttattaa cagctgatac aggtattctg ctgatgtctac tgcctcctag ttaccatgaa</p> <p>caggtttttt cactattaat ggtgcgtcat attttttact ttaagtact taccgtgtgag</p> <p>taagtgaag aaaaagtatt ctatcagta gtatcaatga ttactcaat atctgaatca</p> <p>ccttgattca gaaccatttc agctgtttca ccatacgtca atgaataaca gctcattga</p> <p>tgtcaaaaac ttcaatatcc acttctttca gcctactgta gactctgga gatactttt</p> <p>tgcataatga aggaagtcat atttttttt</p>	Homo sapiens
73	CXC Chemokine Receptor 3	NM_001504	<p>ccaaaccaca gcaccaagc agaggggcag gcagcacacc acccagcagc cagagcacca A</p> <p>gccagcccat ggtccttgag gtgagtacc accaatgct aaatgacgcc gaggttgccg</p> <p>ccctccttga gaacttcagc tcttccctatg actatgaga aaacagagat gactcgtgct</p> <p>gtacctccc gccctgccca caggacttca gcctgaactc cgaccgggcc ttcctgccag</p> <p>cccttacag cctcctcttt ctgctggggc tgcctgggcaa cgcccggttg gcagcgtgac</p> <p>tgctgagccg gcggacagcc ctgagcagca ccgacacatt cctgctccac ctactgttag</p> <p>cagacacgct gctggtgctg acactgccg tctggcagt ggacgtgcc tccagtggg</p> <p>tcttttgctc tggcctctgc aaagtggcag gtgcctcttt caacatcaac ttctacgcag</p>	Homo sapiens

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74	CXC Chemokine Receptor 3	NP_001495.1	<p>gagccctcct gctggcctgc atcagctttg accgtacct gaacatagtt catgccaccc agctataccg ccggggggccc ccggcccgcg tgacctcac ctgctgggt gtctgggggc tgtcctgct ttctgccc ccaacttca tcttctgtc ggccaccac gacgagcgcc tcaacgccac ccaactgcaa tacaacttc cacagtggg ccgcaeggt ctgcggtgc tgcagtgggt gctgggtttt tccagggccc tgctgtccat ggctactgc tatgccaca tcttgccgt gctgctggtt tccagggccc agcgccct ggcgccatg cggctggtgg tgggtgctg ggtggcctt gccctctgt gccccccta tcacctggtg gtgctggtgg acatctcat ggacctggg gctttggccc gcaactgtg ccgagaaagc agggtagacg tggccaagtc ggtcaactca ggcctgggct acatgactg ctgctcaac ccgctgctct atgctttgt aggggtcaag ttccgggagc ggatgggat gctgctctg cgcctgggt gcccacaaca gagaggctc cagaggcagc catcgtcttc ccgcccggat tcctctggt ctgagacctc agaggctcc tactcgggt tgtgagggc gaatccggg tccccctcg cccaagctc gacttcccc cattccaggc tctcctcc ctctgccc tctggtctc cccaatctc tgcctccgg gactcactg cagccccag accaccagg tccccggaa gccacctcc cagctctgag gactgacca ttgctgtcc tagctgcca agccccatcc tgccggccga ggtggctgccc tggagcccca ctgccctct catttgaaa ctaaaacttc atcttcccca agtgcgggga gtacaaggca tggcgtagag ggtgctgccc catgaagcca cagccaggc ctcagctca gcagtactg tggccatggt ccccaagacc tctatattg ctctttatt tttatgcta aaatctgct taaaacttt caataaaca gatcgtcagg acaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa FDRAFLPALY P MVLEVS DHQV LNDAEVAALL ENFSSSYDYG ENESDSCCTS PPCQDFSLN Homo SLFLGLLG NGAVAAVLLS RRTALSSTDT FLHLAVADT LLVLTPLMA VDAVQWVFG sapiens SGLCKVAGAL FNINFVAGAL LLACISFDRY LNIVHATQLY RRGPPARVTL TCLAVWGLCL LFALPDI FL SAHDERLNA THCQYNFPQV GRTALRVILQ VAGFLPLLV MAYCYAHILA VLLVSRGQRR LRAMRLVVV VVAFALCWTP YHLVVLVDIL MDLGALARNC GRESRVDVAK SVTSGLGVMH CCLNPLLYAF VGKFRERNM MLLLRLLGCPN QRLQRQPS SRRDSSWSET SEASYSGL</p>	
75	CXC Chemokine Receptor 4	NM_003467	<p>gtttgttggc tgcggcagca ggtagcaaa ggtcagcagc ggctgagtg ctccagtagc A caccgcatct ggagaaccag cggttaccat ggaggggagc agtatataa cttcagataa ctacaccgag gaaatgggt caggggacta tgactccatg aaggaacctt gtttccgtga agaaaatgct aatttcaata aaatcttct gccaccatc tactccatca tcttcttaac tggcattgtg ggcaatggat tggtcacatc ggtcatgggt taccagaaga aactgagaag catgacggac aagtacaggc tgcacctgc agtggccgac ctctctttg tcatcacgt tccctcttgg gcagtgtgat ccgtggcaaa ctggtaactt gggaacttcc tatgcaaggc agtccatgtc atctacacag tcaacctta cagcagtgct ctcactctgg ccttcacag tctggaccgc tacctggcca tcgtccacgc caccacacgt cagaggccaa ggaagctgtt ggctgaaaag gtggtctatg ttggcgtctg gatccctgct ctcctgtga ctattccga cttcatcttt gccaacgtca gtgaggcaga tgacagatat atctgtgacc gcttctaccc caatgacttg tgggtggttg tgttccagtt tcagcacatc atggttggcc ttatcctgcc tggatattgc atcctgtctc gctattgcat tatcatctcc aagctgtcac actccaagg ccaccagaag cgaaaggccc tcaagaccac agtcactctc atcctggtt tcttcgctg</p>	Homo sapiens

Accession	Gene	Protein	Species
76	CXC Chemokine Receptor 4	NP_003458.1	Homo sapiens
77	Complement Component 3a Receptor 1	NM_004054	Homo sapiens

78 Complement NP_004045.1 755 Component 3a
 Component 1 Receptor 1

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attgctctag catctgcaa tagttgcttt aatcccttcc tttatgccct cttggggaaa
 gatttagga agaaagcaag gcagtcacatt cagggaattc tggaggcagc cttcagtgag
 gagctcacac gtccacacca ctgtccctca acaaatgtca tttcagaaaag aaatagtaca
 actgtgtga
 MASFSAEITNS TDLISQPWNE PPVILSMVIL SLTFLGLPG NGLVLWVAGL KMQRTVNTIWI P
 FLHLTLADLL CCLSLPFSIA HLAIQQWMPY GRFLCKLIPS IIVLNNFASV FLTLAISLDR
 CLVVEKPIWC QNHRNVGMAC SICGCIWVA FVMCIPVFVY REIFTTDNHN RCGYKFGILSS
 SLDYPDFYGD PLENRSLENI VQPPGEMNDR LDPSSFQTNH HPWTVPTVFQ PQTFQPSAD
 SLPRGSARLT SQNLYSNVFK PADVVSPKIP SGFPEDHET SPLDSDAFL STHLKLFPFA
 SSNSFYESEL PQGFQDYNNL GQFTDDDDQVP TPLVAITITR LVVGFLLPVS IMIACYSFIV
 FRMQGRFAK SQSKTFRVAV VVAVFLVCW TPYHIFGVLS LLTDPETPLG KTLMSWDHVC
 TALASANSCE NPFLYALLGK DFRKKARQSI QGILEAAFSE ELTRSTHPCS NNVISERNST
 TV

79 Complement NM_001736 758 Component 5a
 Component 1 Receptor 1

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agggggagcc caggagacca gaacatgaac tccttcaatt ataccacccc tgattatggg A
 cactatgatg acaaggatac cctggacctc aacacccctg tggataaaac ttctaacacg
 ctgctgttc cagacatcct ggccttggtc atcttgcag tcttctctt ggtgggagtg
 ctgggcaatg ccttggtggt ctgggtgacg gcattcgagg ccaagcggac catcaatgcc
 atctggttcc tcaacttgcc gtagccgac ttcctctcct gctggcgct gccatcttg
 tteactcca ttgtacagca tcaccactgg cctttggcg gggcgccctg cagcatcctg
 cctccctcca tctgtctcaa catgtacgcc agcatcctgc tctgggccac catcagcgcc
 gacgccttc tctgtgtgtt taaaccatc tgggtccaga acttcgagg ggcgggcttg
 gctgggatcg cctgtgccgt ggctgggggt ttageccctg tgcggaccat accctcttc
 ctgtaccggg tgggtccggg ggaagtactt ccaccaagg tgtgtgtggt cgtggactac
 agccacgaca aacggcgggg ggcgacgtg gccatgtcc gctggctctt ggccttctctg
 tggcctctac tcacgtcac gattgttac actttcatcc tgcctcggac gtggagcgc
 agggccacgc ggtccaccaa gacactcaag gtggtggtg gctgggtggc cagtttcttt
 atcttctggt tgcctacca ggtgacgggg ataattgatgt ccttcttggg gccatctga
 ccaaccttc tgcgtgtgaa taagctggac tctcttctg tctcctttgc ctacatcaac
 tgcgtcatca accccatcat ctacgtggtg gccggccagg gcttccagg cgcactgcg
 aaatccctcc ccagctcct ccggaacgtg ttgactgaag agtccgtggt tagggagagc
 aagtcattca cgcgtccac agtggaact atggccaga agaccaggc agttaggcg
 acagcctcat gggccactgt ggcctgatgt ccccttctt cccggccatt cctcctctg
 ttttacttc acttttctg gtaggtgtt accctagcta actaaactc ctccatgtg
 cctgtcttc ccagacttgt cctcctttt ccctgggac tcttctatc ctctctctt
 tgcaaggta ccactcctt ctaggagca cctccccc cccacacac
 catcttcca tcccaggctt ttgaaaaaca aacagaaacc cgtgtatctg gatatcttc
 atatggcaat aggtgtgaac agggaaactca gaatacagc aagtagaaag attctcgctt
 aaaaaatgt attatttta tggcaagttg gaaaaatgt aactggaatc tcaaaagttc
 tttgggacaa aacagaagtc catggagta tctaaagctc tgaagtgtg ttaattttaa
 aaagaaaatt aggcctgag cagtggtctc cgcctgaaat ccagaaactt tgggaggtca
 aggtgggtg atcacctgag gtcaagagtt ccagaccagg ctggccagca tggtagaac

80	758	Complement Component 5a Receptor 1	NP_001727.1	MNSFNYYTPD YGHYDDKDTL DLNTPVDKTS NTLRVPDILA LVIFAVVFLV GVLFNALVWV P	ccgtctgtac taaaaataca aaaaattaac tgggcatggt agtgggtgcc tghaatccca gctacttggg aggtcaggt gggagaattg ctcgaaacct ggagctggag gtgtgtgtga gccatgatcg caccactgca ctctagcctg ggtgaccgag ggagctctcg tctcaaaagc aaagcaaaaa caaaacaaaa aacacctaaa aacctgcag tttgttctgt actttgtttt taaattatgc tttctatttt gagatcatgg caaatcaac caattgttaa gtaatgatac agagggatct tgtgtacct tcaccagcc tcccacatg gcaacatctt gcaaaactac aatgtagtct cataaccagg atattgacat tgatacagt agatacagg acattctcat caccacaggg atccccagga tggccacttc cctccacccc caccacccag cegtgtcccc aacctctggc acccaggaaat ccactctcca tttctataat gtgtgcattt caagaatgtt attcaatgga atcataatagt atgaacctg aaaaaaaa ctttagag ctttaagtgg gaaaataaaa atgaatatgg aaaaaaaa ctttagag
81	767	Calcitonin Receptor-like Receptor	NM_005795	Calcitonin Receptor-like Receptor	gcaagcagggga acaacctctc tctctscag agagctgtc acctctgct ttaggacctat caagctctgc taactgaaat tcactcctaat tgcaggatca ccttgcaaa agcttcaactc tcccacctt gcttgtgggt aaatctcttc tgcggaatct cagaaagtaa agtcccatcc tgagaatat tcacaaaagaa tttccttaag agctggactg ggtcttgacc cctggaattt aagaaattct taaagacaat gtcaaatatg atccaagaga aaatgtgatt tgagtctgga gacaattgtg catatcgtct aataataaaa acccatacta gcctatagaa acaatatatt gaataataaa acccatact agcctataga aacaatatatt tgaagatttg ctaccactaa aagaataaact actcaaaact gacaaagatg ctgcaaatct caatgggtca ccacaacttg acaagggttc tataaaacaa gattgtctaca cttctagtt tatgttatac agcatatttc atttgggctt aatgatggag aaaaagtgt a cctgtattt tctggtcttc ttgccttttt ttatgattct tgtttacaga gaattagaag agagtccctg ggaactcaatt cagttgggag ttactagaaa taaaatcatg acagctcaat atgaatgta ccaaaagatt atgcaagacc ccattcaaca agcagaagcg gtttactgca acagaacctg ggtatgattg ctctgctgga acgatgttgc agcaggaact gaatcaatgc agctctgccc tgattacttt caggactttg atccatcaga aaaaattaca agatctgtg accaagattg aaactggttt agacatccag caagcaacag aacatggaca aattataccc agtgaatgt taacaccac gagaagtga agactgcact aaattgttt tacttgacca taattggaca cggatgtctt attgcatcac tgcttatctc gcttggcata ttcttttatt tcaagacct aagttgcaa aggattacct tacacaaaa tctgttcttc tcatttgttt gtaacctgt tgtaacaatc attcaacctca ctgcagtggc caacaaccag gccttagtag ccacaatcc ccaaatctt tgtagttgc aaagtctccc agttcattca tctttacctg atgggctgta attacttttg gatgctgtg gaagcatttt acctacacac actcattgtg gtggccgtgt ttgcagagaa gcaaattta atgtgttatt atttcttgg ctggggattt ccactgattc ctgcttgtat acatgcaatt gctagaagct tatattacaa tgacaattgc tggatcagtt ctgataacca tctcctctac attatccatg

82	767	Calcitonin Receptor-like Receptor	NP_005786.1	MEKKCTLYFL VLLPFFMLIV EGVYCNRTWD GWLCWNVAA WTNYTQCNVN THEKVTALN FFSFVCSNV TIIHLTAVAN IVAVFAEKQ HLMWYFLGW ALLVNLFFLL NIVRVLTKL AEEVDYIMH ILMHFQGLLV YTVSTISDGP GYSHDCPSEH ggggactacg gagagctctg tcccaggagc caggggatgc gagctcagcc taatcaaga cagcttcgc accatcacca agacatcaaa ggtgacatgg ttcctttagg ggaagtccct	TAELEESPED SIQLGVTRNK GTESMQLCPD YFQDFDPSEK LFYLTIIHG LSIASLISL NQALVATNPV SKVSQFIHL GFPLIPACIH AIARSLYND KVTHQAESNL YMKAVRATLI STIFCFNGE VQAILRNWN LNGKSIHDIE NVLLKPNLY N caggggagcgg agggccccgc gaaggagatt cccccgtgg ctgaggttat gaagtgcgc ctgacctct gtacgtgggc catcccaatt agggctacttc tccaagagaa gatgactgcg	INTAQYECYQ KIMQDPIQQA P VTKICDQDGN WFRHPASNRT GIFFYFKSL SQRITLHKNL YLMGCNYFWM LCEGIYLHTL NCWISSDTHL LYIHGPICA LVPLIGIEFV LIPWRPEGKI QYKIQFGNSF SNSEALRSAS	Homo sapiens
83	832	Cannabinoid Receptor 1	NM_001840	ggggactacg gagagctctg tcccaggagc caggggatgc gagctcagcc taatcaaga cagcttcgc accatcacca agacatcaaa ggtgacatgg ttcctttagg ggaagtccct	cgggggcgaag ggaagcttctg A gtcaatttct cagtcatttt ctagatggcc ttgcagatac tcaaatgaca ttcagtagca ccacagaaa tccctttaac ggagacaacc cccagctagt		Homo sapiens

84	Cannabinoid Receptor 1	NP_001831.1	832	833	<p>ccagcagac caggtgaaca ttacagaatt ttacacaag tctctctcgt ccttcaagga gaatgaggag aacatccagt gtggggagaa cttcatggag atagagtgtt tcatggtcct gaacccagc cagcagctgg ccattgcagt cctgtccctc acgtgggca ccttcaagggt cctggagaac ctcttggtgc tgtgcgtcat cctccactcc cgcagcctcc gctgcaggcc ttcctaccac ttcctgggca gctggcgtt ggcagacctc ctggggagtg tcattttgt ttacagcttc attgacttcc acgtgttcca cgcgaagat gccgcaacy tgtttctgtt caaatgggtt ggggtcacgg cctccttcc cctccctgt ggcagcctgt tcttcacagg catgacagg tacatatcca ttcacaggcc cctggcctat aagaggattg tcaccaggcc caaggccgtg gtggcgtttt gcctgatgtg gaccatagcc attgtgatcg ccgtgctgcc tctcctgggc tggaaactgcg agaaactgca atctgtttgc tcagacattt tccacacat tgcagaaacc tacctgatgt tctggatcgg ggtcaccagc gtactgcttc tgttcacgt gtatgcgtac atgtatattc tctggaaggc tccagccac gccgtccgca tgattcagcg tggcaccag aagagcatca tcatccacac tctcaggat gggaaagtac aggtgacctg gccagaccac gcccgcatgg acattaggtt agccaagacc ctggtcctga tctggtggt gttgatcatc tgcctgggccc ctctgcttgc aatcatggtg tatgatgtct ttgggaagat gaacaagctc attaagacgg tgttgctatt ctgcagtatg ctctgctcgc tgaactccac cgtgaacccc atcatctatg ctctgaggag taaggacctg cgacacgctt tccggagcat gtttccctct tgtgaaggca ctgcgcagcc tctggataac agcatggggg actcggactg cctgcacaaa cagcacaaca atgcagccag tgttcacagg gccgcagaaa cctgcacaa gagcacggtc aagattgcca agttaacct ctctgtgtcc acagacacgt ctgccgaggc tctgtgagcc tgcctcctcc ctggcagcac aggaataagaa ttttttttt taagctcaaa atctagaaga gtctattgtc tcttggttta tttttttta actttaccat gctcaatgaa aaggtgattg ccacatgtca cttattgtct tagtttccgt ttgggctaat ctccggggt tcgtaggaaa ccttt</p>	Homo sapiens
85	Cannabinoid Receptor 2	NM_001841	833	834	<p>LYVGSNDIQY EDIKGDMASK LGYFPQKEPL TSFRGSPFQE P KMTAGNPQL VPADQVITE FYNKLSSEFK ENEENIQCGE NFMIDIECFMV LNPSQQLAIA VLSLTGTFE VLENLVLGV ILHSRLRCR PSYHFISLA VADLLGSVIF VYSFIDFHV HRKDSRNVEL FKLGGVTASF TASVGSLELT AIDRYTSHR PLAYKRIVTR PKAVAFCLM WTIAIVIAVL PLLGNCEKL QSVCSDFPH IDETYLMEFI GVTSVLLFI VYAYMYILWK AHSHAVRMIQ RGTQKSIH TSEDGKVQVT RPDQARNDIR LAKTLVLIV VLIICWGPLL AIMVYDVFGK MNKLITVFA FCSMLCLNS TVNPIIALR SKDLRHAFRS MFPSCEGTAQ PLDNSMGDS CLHKHANNAA SVHRAESCI KSTVKIAKT MSVSTDSAE AL</p>	Homo sapiens

86	Cannabinoid Receptor 2	NP_001832.1	MEECWTEIA NGSKDGLDSN PMKDYMLISG PQKTAVALVC TLLGLLSALE NVAVLYLILS P	Homo sapiens
87	Leukocyte Antigen CD97	NM_001784	SHQLRRKPSY LFIGSLAGAD FLASVVFACS FVNFHFHGV DSKAVFLKLI GSVMTFTFAS VGSLLLTALD RYLCLRYPPS YKALLTRGRA LVTLGIMWVL SALVSYLPLM GWTCPPRPCS ELFPLIPNDY LLSWLLFIAT LFSGLIITYG HVLWKAHQHV ASLSGHQDRQ VPGMARMLD VRLAKTIGLV LAVLLICWFP VLALMAHSIA TTLSDQVKKA FAFCSMLCLI NSMNPVIYA LRSGEIRSSA HHCLAHWKC VRGLGSEAKE EAPRSSVTET EADGKITPWP DSRDLDSLDC agctccaacc atgggagacc gcgtctttct cgcattctgt gtctggctga ctctgccggg A agctctgtga gacgggacag cctgtccca ctcaactctt cctcagaact cctcgtgtgt agctgaacc caggactcca ggggctgtgc cctcagctct tttctgaga tcatcaccac caatgccacc gcctgtcgtc gcaatccagg gtctgcaaca cgtcgaaaaa tgtcatgcgg cccagcggag acttgtgacg acatcaacga acacagaggg gagctacgac tgcgtgtgca gcccgggata aaaattctcg gactgctgga acacattcaa aaacattcaa gaatacagtc gagaacacct gtcaagatgt tgagcctgtt tctggggcaa agcatcagtg tgacagctcc accgtctgct tcaacacagt ggagcagtc agctccgggc gccgcccagg ctggaagccc agacacggaa tcccgaataa gggttcatac agctgcgct actgtctgtg aagatatgac ttctccacc tggaccccg cccctggagt ccaaaaggac actgtctgtg gattcttcca caaagtcagg gacctgggca gagactccaa ccacagccag acgcttccc gattcttcca caatccagaa tgtcatcaaa ttggtggatg aactgatgga gacaaagtca gccgaggtca ccatccagaa tgcctcagac cacctcatag ccaccagct agctcctgga gacgtagagg ccctggcgcc accgtgcagg cctggccaag agcctgccta aagggccctt gctctcaaac ctgaaagata tcatgaggat cctggccaag agcctgccta aagggccctt	Homo sapiens

88	922	Leukocyte Antigen CD97	NP_001775.1	<p>cacctacatt tcccccttcca acacagagct gaccctgatg atccaggagc ggggggacaa gaacgtcaact atgggtcaga gcagcgcacg catgaagctg aattgggctg tggcagctgg agccagggat ccaggccccc cgtggcggg cactctctcc atccagaaca tgacgacatt gctggccaat gcctccttga acctgcattc caagaagcaa gccgaactgg aggagatata tgaagcagc atccgtggtg tccaactcag acgcctctct gccgtcaact ccactcttct gagccacaac aacaccaag aactcaactc cccatcctt ttcgcttct cccacttga gtcctccgat ggggagcggt gaagagacc tctgccaag gactgatgc ctggggccacg gcaggagctg ctctgtgctt tctggaagag tgacagcagc agggagggc actggggccac cgaggtctgc caggtgctgg gcagcaagaa cggcagcacc acctgccaat gcagccacct gagcagcttt acgactccta tggctcatta tggctgagag gactggaagc tgaccctgat caccaggtg ggaactggcg tgtcactctt ctgctgctg ctgtgcattc tcactttctt gctggtgctg cccatccagg gctcgcgcac caccatacac ctgcacctct gcatctgect cttcgtgggc tccacctct tctggcgcg catcgagaac gaaggcgcc aggtggggct gcgtgcccgc ctggtggcgg ggtgctgca ctactgttc ctggcggctt tctgtggat gagcctcgaa ggctggagc tctactttct tgtgtgcgc gtgttccaa gccagggcct gagtaacgc tggctctgcc tgatcgcta tggcgtgcc ctgctcagc tgggcgtctc ggctgccatc tacagcaag gctacggcg cccagatgc tgcgtgttg accttgagca tttcgtgact accgtctgga agctcactca gaagttttct gaaatcaatc cagacatgaa gaaattaaag aaggcgagg cgctgacctc caggccatc gcgcagctct tctgtttggg ctgcacctgg gtctttggcc tgttcatctt cgacgatcgg agcttggctg tgacctatgt gtttaccatc ctcaactgcc tgcagggcg cttcctctac ctgtgctcact gcctgctcaa caagaagggt cgggaagaat accggaagt ggcctgccta gttgctgggg ggagcaagta ctcagaattc acctccacca cgtctggcac tggccacat cagacccgg cctcagggc atcagagtc gccatatgaa ggcgcatggt tctggacggc ccagcagctc ctgtggccac agcagctttg tacacgaaga ccatccatcc tccctctgct caccactcta ctcctccac cctccctccc tgatcccggt tggcaccagg agggagtgc agctatagtc tggcaccaaa gtccaggaca cccagtgggg tggagtggga gccactggtc ctgctgctgg ctgctctct gtccacctt gtgaccagg gtgggacag ggcctggccc aggcctgcaa tgcagcatgt tgccctggca cctgtggcca gtactcgga cagactaagg gcgcttgctc catcctggac tttctctc atgtcttgc tgcagaactg aagagactag gcgctggggc tcagcttccc tcttaagcta agactgatgt cagaggccc atggcagagc ccttggggc cactgacctga ggctcacggt acagaggctt gccctgctg gccgggcagg aggttctcac tgttgtgaag gtgtgagcg ttgtgtaatg tgttttctc ttgtaaaatt tttcagtgtt gacacttaaa attaaacaca tgcatacaga aaaaaaaaaa a</p>	<p>Homo sapiens</p>
				<p>P FSEIITPTE ENTCQDVDEC WTTPPGVHSQ TVCEDMTFT HLIATQLLSN DVEALAPVR MGQSSARMKL NWAVAAGAE IRGVQLRRLS AELEEIYESS ASLNLSKKQ SPSNTLILAN DLGRDSKTSS TVCFNVTGSY PQNSVCVNAV SCRCRPGWKP AEVTIQNVIK QDSRGCARWC QDNRTEGSDY CVCSPGYEPV AGAKTFKNES ACRCNPGFSS</p>	

89	941	EMR1 Hormone NM_001974 Receptor	Homo sapiens
NTKELNSPIL FAFSHLESSD GEAGRDPPAK DVMPGPRQEL LCAFWKSDSD RGGHWATEVC	ctaaagtttt ttctcttgaa tgacagaact acagcataat gcgtggcttc aacctgctcc A		
QVLGSKNGST TCQCSHLSSF TIIMAHYDVE DWKLTITRV GLALSFLCLL LCILTFLLVR	ttctctgggg atgttgtgtt atgcacagct gggaaggga cataagacc acacggaaac		
PIQSRRTIHL LHLICLFLVG STIFLAGIEN EGGQVGLRCR LVAGLLHYCF LA AFCWMSLE	caaacacaaa gggtaataac tgtagagaca gtacctgtg cccagcttat gccacctgca		
GLELYFLVVR VFQGGGLSTR WLCLIGYGPV LLIVGVSAAI YSKGYGRPRY CWLDFEQGEL	ccaatacggg ggacagttac tattgcaact gcaaacagg cttcctgtcc agcaatgggc		
WSFLGPVTFI ILCNAVIFVT TWKLTQKFS EINPDMKKLK KARALITAI AQLFLLGCTW	aaaatcactt caaggatcca ggagtggat gaaaagatat tgatgaatgt tctcaaaagcc		
VEGLFIIDDR SLVLYVFTI LNCLOGAFLY LLHCLLNKKV REEYRKWACL VAGGSKYSEF	cccagccctg tggctctaac tcactctgca aaaacctgtc agggaggtac aagtgcagct		
TSTTSGTGHN QTRALRASES GI	gtttagatgg ttctcttctt cccactggaa atgactgggt cccaggaaa cggggcaatt		
	ttctcctgtac tgatatcaat gagtgcctca ccagcagggt ctgccctgag catctcgact		
	gtgtcaactc catgggaagc tacagttgca gctgtcaagt tggattcacc tctagaaact		
	ccacctgtga agacgtgaat gaatgtgcag atccaaagc ttgccagag catgcaactt		
	gtaataaacac tgttggaacc tactctgtt tctgcaacc aggatttgaa tccagcagtg		
	gccacttgag ttgccagggt ctcaaaagcat cgtgtgaaga tattgatgaa tgcactgaaa		
	tgtgccccat caattcaaca tgcaccaaca ctctgggag ctactttgc acctgccacc		
	ctggtcttgc accaagcagt ggacagttga atttcacaga ccaaggagtg gaatgtagag		
	atatgatga gtgccgcaa gatccatcaa cctgtgttcc taattctatc tgcaccaatg		
	ccctgggctc ctacagctgt ggctgcattg taggctttca tcccaatcca gaaggctccc		
	agaaagatgg caacttcagc tgccaaagggt ttctcttcaa atgtaaggaa gatgtgatac		
	ccgataataa gcagatccag caatgccaa agggaaacgc agtgaacct gcatatgtct		
	ccttttgtgc acaataaaat aacatcttca gcgttctgga caaagtgtgt gaaaaataa		
	cgaccgtagt ttctctgaag aatacaactg agagctttgt cctgtgtctt aaacaaatat		
	ccatgtggac taaattcacc aggaagaga cgtctctccc gcccacagtc ttctggaga		
	gtgtggaaa catgacactg gcatcttttt ggaaacctc agcaaatgtc actccggctg		
	ttcggggcgga atacttagac attgagagca agtttatcaa caaagaatgc agtgaagaga		
	atgtgacgtt ggacttggta gccaaagggtg ataagatgaa gatcgggtgt tccacaattg		
	aggaatctga atccacagag accactggtg tggcttttgt ctccttttgt ggcattggaat		
	cggttttaaa tgagcgcttc ttccaaagacc accaggctcc cttgaccacc tctgagatca		
	agctgaagat gaattctcga gtctgtgggt gcataatgac tggagagaag aaagacggct		
	tctcagatcc aatcatctac actctggaga cgtttcagc aaagcagaag tttagagggc		
	ccatctgtgt ttctctggag actgatgga aggttggaag atggacatcc tttagctgtg		
	tgatctctgga agcttctgag acatatacca tctgcagctg taatcagatg gcaaatcttg		
	ccgttatcat ggctctgggt gagctcaga tggacttttc cttgtacatc attagccatg		
	taggcattat catctccttg gtgtgcctcg tcttgacctc cggcaccttt ctgctgtgtc		
	gtcccatccg aaatcacaa acctacctcc acctgcacct ctgcgtgtgt ctcctcttgg		
	cgaagactct ctctctcgcc ggtatacaca agactgacaa caagacgggc tgcgccatca		

90	941	EMR1 Hormone NP_001965.1 Receptor	MRGNLLLEW GCCVHHWEG HIRPTRKENT GFLSSNGQNH FKDPGVRCND IDECSQSPQ VPGKPGNFSC TDINECLTSR VCPHESDCVN ACPEHATCNN TVGNYSFCFN PGFESSGHL SYFCTCHPGF APSSGQLNFT DQVECRDID HPNPEGSQKD GNFCQRVLF KCKEDVIPDN DKVCENKTV VSLKNTTESF VPVLKQISMW SANVTPAVRA EYLDIESKVI NKECSEENV VSFVGMESVL NERFFQDHA PLTTSEIKLK PKQKFERPIC VSWSTDVKG RWTSGCVIL SLYIISHVGI IISLVCLVLA IATFLCRSI NKTGCAIAG FLHYLFLACF FWMLVEAVIL PMLVVVISAS VQPQGYGMHN RCWLNTETG SSVNAEVSTL KDRLLTFKA FAQLFILGS FLIHCLLNGQ VREYKRWIT GKTGPSQSQ ggaaaacgac acctagaagt aggagtga acccctccgc ctgtagagcc ggggctggcg ccacgcgggc ttggggggcc tcgctctgcc gcgagtgaat attcaaatgg ccagtagggg gcagttcagc ggcctccaga gtccggggag tgaatccgc aacctagc aggagggcg ggacggcagg taccagaga gtgacgagc	cttttccttg agaacctga aggtgtgaa gcctttggtt atgggtgcc gatgtgtg tgccatgtt gcagccacag ggcctatgaa ctggagttc ctggagttc ttggggccag gacctgttg agacccagg ttactgacct gggtgctgg ggtgctggc attttcaga catcaacgc ctgcagggg ccttcatt acgagcagg acgagaaga tacaagagt ctcaaggac ctcaaggac ttgctgtcct gctttcttg ctttcaata tgctatggag agcctacct gaaatctct ctgagcttaa acctctggg gaagaatgtt gggggcctc cagacgttc tgctccaaac gaccatttta gagttctga gaacagacc aaattcaatg gttttctc gctctgttg gtgcatgtt gcctgacaca gagaacctc caataaatga aaaaaaa aaaaaaa aaaaaaa CGPNSSCKNL SGRYKSCLD GFSSPTGNDW SMGSYSCSQ VGFISNSTC EDWNECADPR SCQGLKASCE DIDECEMCP INSTCNTPG ECRQDPSTCG PNSICTNALG SYSCGCVGF KQIQCCQEGT AVKPAYVFC AQINNIFSVL LATVFLESVE SMTLASFWKP LDLVAKGDKM KIGCSTIEES ESTETGVAF MNSRVVGGIM TGEKKDGFSD PIYTLENVQ CNQMANLAVI MASGELTMDF RNHNTYLHLH LCVCLLLAKT LFLAGIHKT FLMVRNLKV NYFSSRNIM LHICAFGYGL IWSFLGPVCT VIVINSLLT WTLWILRQL WVLGIFQIGR VAGVMAYLFT IINSLQAFI TSRILLSSMP SASKTG	ctggatctg ttacttcagc ttctgcaaca gatgtgtg atgggtgcc gatgtgtg tgccatgtt gcagccacag ggcctatgaa ctggagttc ctggagttc ttggggccag gacctgttg agacccagg ttactgacct gggtgctgg ggtgctggc attttcaga catcaacgc ctgcagggg ccttcatt acgagcagg acgagaaga tacaagagt ctcaaggac ctcaaggac ttgctgtcct gctttcttg ctttcaata tgctatggag agcctacct gaaatctct ctgagcttaa acctctggg gaagaatgtt gggggcctc cagacgttc tgctccaaac gaccatttta gagttctga gaacagacc aaattcaatg gttttctc gctctgttg gtgcatgtt gcctgacaca gagaacctc caataaatga aaaaaaa aaaaaaa aaaaaaa CPAYATCNT VDSYYCTCKQ P SRYKSCLD GFSSPTGNDW DIDECEMCP INSTCNTPG PNSICTNALG SYSCGCVGF AVKPAYVFC AQINNIFSVL LATVFLESVE SMTLASFWKP KIGCSTIEES ESTETGVAF TGEKKDGFSD PIYTLENVQ CNQMANLAVI MASGELTMDF LCVCLLLAKT LFLAGIHKT NYFSSRNIM LHICAFGYGL VIVINSLLT WTLWILRQL VAGVMAYLFT IINSLQAFI SASKTG	Homo sapiens
91	965	G Protein-Coupled Receptor GPR30	MRGNLLLEW GCCVHHWEG HIRPTRKENT GFLSSNGQNH FKDPGVRCND IDECSQSPQ VPGKPGNFSC TDINECLTSR VCPHESDCVN ACPEHATCNN TVGNYSFCFN PGFESSGHL SYFCTCHPGF APSSGQLNFT DQVECRDID HPNPEGSQKD GNFCQRVLF KCKEDVIPDN DKVCENKTV VSLKNTTESF VPVLKQISMW SANVTPAVRA EYLDIESKVI NKECSEENV VSFVGMESVL NERFFQDHA PLTTSEIKLK PKQKFERPIC VSWSTDVKG RWTSGCVIL SLYIISHVGI IISLVCLVLA IATFLCRSI NKTGCAIAG FLHYLFLACF FWMLVEAVIL PMLVVVISAS VQPQGYGMHN RCWLNTETG SSVNAEVSTL KDRLLTFKA FAQLFILGS FLIHCLLNGQ VREYKRWIT GKTGPSQSQ ggaaaacgac acctagaagt aggagtga acccctccgc ctgtagagcc ggggctggcg ccacgcgggc ttggggggcc tcgctctgcc gcgagtgaat attcaaatgg ccagtagggg gcagttcagc ggcctccaga gtccggggag tgaatccgc aacctagc aggagggcg ggacggcagg taccagaga gtgacgagc	cttttccttg agaacctga aggtgtgaa gcctttggtt atgggtgcc gatgtgtg tgccatgtt gcagccacag ggcctatgaa ctggagttc ctggagttc ttggggccag gacctgttg agacccagg ttactgacct gggtgctgg ggtgctggc attttcaga catcaacgc ctgcagggg ccttcatt acgagcagg acgagaaga tacaagagt ctcaaggac ctcaaggac ttgctgtcct gctttcttg ctttcaata tgctatggag agcctacct gaaatctct ctgagcttaa acctctggg gaagaatgtt gggggcctc cagacgttc tgctccaaac gaccatttta gagttctga gaacagacc aaattcaatg gttttctc gctctgttg gtgcatgtt gcctgacaca gagaacctc caataaatga aaaaaaa aaaaaaa aaaaaaa CGPNSSCKNL SGRYKSCLD GFSSPTGNDW SMGSYSCSQ VGFISNSTC EDWNECADPR SCQGLKASCE DIDECEMCP INSTCNTPG ECRQDPSTCG PNSICTNALG SYSCGCVGF KQIQCCQEGT AVKPAYVFC AQINNIFSVL LATVFLESVE SMTLASFWKP LDLVAKGDKM KIGCSTIEES ESTETGVAF MNSRVVGGIM TGEKKDGFSD PIYTLENVQ CNQMANLAVI MASGELTMDF RNHNTYLHLH LCVCLLLAKT LFLAGIHKT FLMVRNLKV NYFSSRNIM LHICAFGYGL IWSFLGPVCT VIVINSLLT WTLWILRQL WVLGIFQIGR VAGVMAYLFT IINSLQAFI TSRILLSSMP SASKTG	ctggatctg ttacttcagc ttctgcaaca gatgtgtg atgggtgcc gatgtgtg tgccatgtt gcagccacag ggcctatgaa ctggagttc ctggagttc ttggggccag gacctgttg agacccagg ttactgacct gggtgctgg ggtgctggc attttcaga catcaacgc ctgcagggg ccttcatt acgagcagg acgagaaga tacaagagt ctcaaggac ctcaaggac ttgctgtcct gctttcttg ctttcaata tgctatggag agcctacct gaaatctct ctgagcttaa acctctggg gaagaatgtt gggggcctc cagacgttc tgctccaaac gaccatttta gagttctga gaacagacc aaattcaatg gttttctc gctctgttg gtgcatgtt gcctgacaca gagaacctc caataaatga aaaaaaa aaaaaaa aaaaaaa CPAYATCNT VDSYYCTCKQ P SRYKSCLD GFSSPTGNDW DIDECEMCP INSTCNTPG PNSICTNALG SYSCGCVGF AVKPAYVFC AQINNIFSVL LATVFLESVE SMTLASFWKP KIGCSTIEES ESTETGVAF TGEKKDGFSD PIYTLENVQ CNQMANLAVI MASGELTMDF LCVCLLLAKT LFLAGIHKT NYFSSRNIM LHICAFGYGL VIVINSLLT WTLWILRQL VAGVMAYLFT IINSLQAFI SASKTG	Homo sapiens

ccgcaggagc gccgcgcgga cgagcagcg gaggccctc gctccacgg atgcaccatg
 ccggtgtgag gagcatctgt tcttccact ctctcagtt acaaaaccca accaaacca
 ccacagggtc tctctctggg gatttctctg tctgacaaat gccaggctca ctccaaggag
 aatcacgctt ctttctaaag atggattcac catttaaac agagctcttg gagccttctg
 gcaaatcttg aaagtgcac ggcagagaga catgatgtg acttccaaag cctggggcgt
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 gctcaacctg tccccccgc tcttgggac cgccctggcc aatgggacag gtgagctctc
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 ccccatcgcc tttgtgggca acatctgat cctgtgtgtg aacatcagct tccgcagaa
 gatgaccatc ccgacctgt acttcatca cctggcggtg gcggacctca tcttgtgtggc
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 gatgagcttc gaccgtaca tgcctctggc cagggccatg cgtgcagcc tgttccgcac
 caagcaccac gcccgctga gctgtggcct catctggatg gcctcgtgt cagccacgct
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 tgtccgggag gtgcagtggc tgcaggtcac gctgggcttc atcgtgacct tgcctcat
 cgccctgtgc tactccctca ttgtccgggt gctgggtcagg gcgcacggc accgtgggct
 gcggccccgg cggcagaagg cgctcgcgat gatcctcgg gctgtgtgtg tcttctctgt
 ctgtgtgctg ccggagaacg tcttcatcag cgtgcacctc ctgcagcgga cgcagcctgg
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 gttcagcagt gccgttaga cagccttggc cgcataggcc cagccagggt gtgactcggg
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 gatgtggctt ctggctctc ggggcctcgc gagggtcacg ctgcctggt caccctggg
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 caaagcgtc gccccgagc gtccaaaggc cagcgtgtac cagcctgtca cccagctcct
 ccccgccaac cctgcctgcc gctgcacctg cctgcggctg caggaaacat ttgacaccgt
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 gctgcctgt ggttagtcg ggtgccagga caatgaata ctccagcac tgtgtgtgac
 gaatttgtt ctacagaaat aacagctggg gacaactgg gtgatgatgt aaaaacctc
 ccataaaatg taagaaaagc tgatgaggt ggtgacgttc agcctttgtc aataaacctg
 tcatgtgcgg atcctt

Homo

P

ALANGTGELS

LNLSHPLLGT

PAAPNTTSP

GLEMYPGTAQ

MDVTSQARGV

NP_001496.1

G Protein-

965

92

93	978	Cholecystostoki nin A Receptor	NM_000730	LSCLYTIFFL PIGFVGNI LI LVNISFREK MTIPDLXFIN LAVADLILVA DSLIEVENLH sapiens
				ERYDIAVLC TEMSLFLOVN MYSSVFLTW MSFDRIYALA RAMRCSLFRT KKHARLSCGL sapiens
94	978	Cholecystostoki nin A Receptor	NP_000721.1	IWMASVSATL VPFTAVHLQH TDEACFCFAD VREVQWLEVT LGFIVPFALL GLCYSLIVRV sapiens
				LVRAHRHGL RPRRQKALRM ILAVLVFEV CWLPENVFS VHLQRTQPG AAPCKQSFH sapiens
95	978	Cholecystostoki nin A Receptor	NM_000730	AHPLTGHIVN LAAFNSCLN PLIYSFLGET FRDKRLXYE QKTNLPALNR FCHAALKAVI sapiens
				PDSTEQSDVR FSSAV sapiens
96	978	Cholecystostoki nin A Receptor	NM_000730	ggaatggctg aaaaagccca cacctggaaa tcactccctc cctgctcctc caggcagggt A Homo
				tgcatctgctg agacgctctg gtcattagag gaatgagccg ggagtgagca attcaccagg sapiens
97	978	Cholecystostoki nin A Receptor	NM_000730	tctccagcac ttggtgaaa gcagcaggca aggatggatg tggttgacag ccttcttctg sapiens
				aatggaagca acatcactcc tccctgtgaa ctgaggctcg aaaaatgagac gcttttctgc sapiens
98	978	Cholecystostoki nin A Receptor	NM_000730	ttggatcagc cccgtccttc caaagagtgg cagccagcgg tgcagattct cttgtactcc sapiens
				ttgatattcc tgctcagcgt gctgggaaac acgctggta taccgtgct gattcgggaa sapiens
99	978	Cholecystostoki nin A Receptor	NM_000730	aagcggatgc ggacggtcac caacatcttc ctctctccc tggctgtcag gacctcctg sapiens
				ctctgtctct tctgcatgcc gtccaacctc atccccaatc tgcctcaagg tttcatcttc sapiens
100	978	Cholecystostoki nin A Receptor	NM_000730	gggagcgcgg ttgtcaagac caccacctac ttcatgggca cctctgtgag tgtatctacc sapiens
				tttaattctg tagccatac tctagagaga tatgggtgca ttgcaaac cttacagtcc sapiens
101	978	Cholecystostoki nin A Receptor	NM_000730	cgggtctggc agacaaaac ccatgctttg aaggtgattg ctgctacctg gtgctcttcc sapiens
				tttaccatca tgactccgta cccatttat agcaacttgg tgccttttac caaaaataac sapiens
102	978	Cholecystostoki nin A Receptor	NM_000730	aaccagacog cgaatatgtg ccgctttcta ctgccaaatg atgttatgca gcagtcctgg sapiens
				cacacattcc tgttactcat cctcttctt attcctggaa ttgtgatgat ggtggcatat sapiens
103	978	Cholecystostoki nin A Receptor	NM_000730	ggattaatct ctttggaaat ctaccaggga ataaaatttg aggtagcca gaagaagtct sapiens
				gctaaagaaa ggaacacctag caccaccagg agcgcaaat atgaggacag gcatgggtgt sapiens
104	978	Cholecystostoki nin A Receptor	NM_000730	tacctgcaaa agaccaggcc ccgagggaag ctggagctcc ggcagctgc caccggcagc sapiens
				agcagcagggg ccaaccgcat ccgaggtaac agctccgag ccaacctgat ggccaagaaa sapiens
105	978	Cholecystostoki nin A Receptor	NM_000730	aggtgatcc gcatgctcat cgtcatcgtg gtccctcttc tctgtgctg gatgcccatc sapiens
				ttcagcgcca acgcttgccg ggcctacgac accgctccg cagagcgccg cctctcagga sapiens
106	978	Cholecystostoki nin A Receptor	NM_000730	acccccattt ccttcactct cctcctgtcc tacacctct cctgcgtcaa ccccatcatc sapiens
				tactgcttca tgaacaaaag cttccgctc ggcttcattg ccaccttccc ctgctgcccc sapiens
107	978	Cholecystostoki nin A Receptor	NM_000730	aatcctgttc cccaggggc gagggagag gtgggggag aggaggaag cgggaccaca sapiens
				ggagcctctc tgtccagggt ctctacagc catatgagt cctcggtgcc accccagtga sapiens
108	978	Cholecystostoki nin A Receptor	NM_000730	gatgtccctt gaccctccac cgcagaagga aggcaggag gagcagaga agaaagaacg sapiens
				gaagaagaga tcaggaaagag aaggagcaga gcagagctga tggagaagga aggtcccatc sapiens
109	978	Cholecystostoki nin A Receptor	NM_000730	tccagtggga actcttcaag gtctctttc atcttctat tgattccaga gcactgctcc sapiens
				agtggggcca tgattgggtt ctaggcaggt caagcagga tatgttaagt aacactcaac sapiens
110	978	Cholecystostoki nin A Receptor	NP_000721.1	catcag sapiens
				MDVVDLSLVN GSNITPPCEL GLENETLFLCL DQPRPSKEWQ PAVQILLYSL IFLLSVLGNT P Homo
111	978	Cholecystostoki nin A Receptor	NP_000721.1	LVITVLIRNK RMRTVTNIFL LSLAVSDML CLFCMPFNLI PNLLKDFIFG SAVCKTITYF sapiens
				MGTSVSVSTF NLVAISLERY GAICKPLQSR VWQTKSHALK VIAATWCLSE TIMTPYPIYS sapiens
112	978	Cholecystostoki nin A Receptor	NP_000721.1	NLVPFTKNN QTNMCRFL PNDVMQSWH TFLLLILFLI PGIVMWAYG LISLELYQGI sapiens
				KFEASQKKA KERKPTSS GKYESDGCY LQKTRPRKL ELRLSTGSS SPANRIRNS sapiens
113	978	Cholecystostoki nin A Receptor	NP_000721.1	SAANLMAKR VIRMLIVIV LFFLCWMPIF SANAWRAYDT ASERRLSGT PISFILLISY sapiens

95	1103	Corticotropin releasing factor Receptor 2	NP_001883	MSASVPPQ	TSSCVNPIIY CFMKNRFRLLG FMATFPCCPN PGPPGARGEV GEEEGGTTG ASLSRFSYSY	atggacgagg cactgctcca cagcctgctg gaggccaact gcagcctggc gctggctgaa A gagctgctct tggacgggtg ggggccacc ctggaccctg agggctcccta ctctactgc aacacgacct tggaccagat cggaaactgc tggccccgca gcgctgcccg agccctcgtg gagagggcgt gccccagta ctccaacggc gtcaagtaca acacgcccg gaatgctat cgagaatgct tggagaatgg gacgtgggccc tcaaatgata actactaca gtgtgagccc atttggtatg acaagcagag gaagtatgac ctgcactacc gcctgcccct tgtcgtcaac tacctgggccc actggtatc tgtggcagcc ctgggtggccg ccttctgct tttcttgccc ctgcggagca ttcgctgtct gcggaatgtg attcactgga acctcatcac cacctttatc ctgcgaaatg tcatgtggtt cctgctgag caccaccat tccaactact tctgtgtgac caacttcttc gaggtctggt gccactgcat ctacctgac acggccattg tcatgacctc ctccactgag tggatgtttg tggaaaggctg ctacctgac acggccattg tcatgacctc ctccactgag cgctgcgca agtgcctctt cctcttcac ggatggtgca tccccctccc catcatcgtc gcctgggcca tcggcaagct ctactatgag aatgaacagt gctgggttgg caaggagcct ggcgacctgg tggactacat ctaccaagg cccatcttc tctgtctct gatcaatttc gtatttctgt tcaacatcgt caggatccta atgacaaagt tacgcgctc caccacatcc gagacaaacc agtacagga agcagtgag gccacctgg tgcctctgccc cctcctgggc atcacctaca tgcctctctt cgtcaatccc ggggaggagc acctgtcaca gatcatgttc atctatttca actccttctt gcagtcgttc cagggtttct tctgtctgt cttctactgc ttcttcaatg gagaggtgct ctcagccgtg aggaagaggt ggcacccgtg gcaggacct cactcccttc ggtccctcat ggcggggccc atgtccatcc ctacatcac cacacggatc agcttccaca gcatcaagca gacggccgct gtgtgacccc tgggtcggcc acctgcacag ctccctctc ctctccacc tcttctctt ggtttctctg tctgtggcag gctctcgtgg ggcaggagat gggaggggag agaccagctc tccagcctgg caggaaagag ggggtgccc agccaagggt gactgcaagg gacagggtg agtgggggcc accaggctca gcgcaagag agcagagagg aattcacagg acccctgag aagagccagt cagatgtctg caggcatttg cccatccag cctctctgag caggcccta ctggggcccag agcagagaag gacctgtcca acacacacag ctatttatag tagcacacac agggctcccc tgcctactc atggagccag cagccaggca atggtgtggc cctgactgg ccttggact ccacactcag tgggtgccc cagttgggtg ggttaacgccc aagcaaaagg tcaagttggc tgccttacc cagggtgctc acctagagag gctcactgt acccaccct gttcctgtgt cccctcccca gccatcctcc ccgcttggg ggtcccatga aggatgcagg ctccaggcc tggcttctc tcttgggaga cccttctct gctagtgcca cagattaggc aatcaaggaa gacgccatca gggaaagccac atccttagtc aaccagtgct atcgtgccc gcaaaatgag gacgagaggc atggagagg gagggctggg atgggaatag cagaaccacc atgtcttcag tgattgaaac tcatacccca ttgccccttg cctccagtc tccccttcag aaacatctct gctctctgtg aaataaacca tgctcttg	Homo sapiens
96	1103	Corticotropin releasing factor	NP_001874.1	MDAALLHSL	ERPCPEYFNG VKYNTTRNAY RECLENGTWA SKINYSQCEP ILDDKQRYD LHYRIALVN YLGHCVSVAA LVAALLFLA LRSIRCLRN LRSIRCLRN LRSIRCLRN LRSIRCLRN LRSIRCLRN	atggacgagg cactgctcca cagcctgctg gaggccaact gcagcctggc gctggctgaa A gagctgctct tggacgggtg ggggccacc ctggaccctg agggctcccta ctctactgc aacacgacct tggaccagat cggaaactgc tggccccgca gcgctgcccg agccctcgtg gagagggcgt gccccagta ctccaacggc gtcaagtaca acacgcccg gaatgctat cgagaatgct tggagaatgg gacgtgggccc tcaaatgata actactaca gtgtgagccc atttggtatg acaagcagag gaagtatgac ctgcactacc gcctgcccct tgtcgtcaac tacctgggccc actggtatc tgtggcagcc ctgggtggccg ccttctgct tttcttgccc ctgcggagca ttcgctgtct gcggaatgtg attcactgga acctcatcac cacctttatc ctgcgaaatg tcatgtggtt cctgctgag caccaccat tccaactact tctgtgtgac caacttcttc gaggtctggt gccactgcat ctacctgac acggccattg tcatgacctc ctccactgag tggatgtttg tggaaaggctg ctacctgac acggccattg tcatgacctc ctccactgag cgctgcgca agtgcctctt cctcttcac ggatggtgca tccccctccc catcatcgtc gcctgggcca tcggcaagct ctactatgag aatgaacagt gctgggttgg caaggagcct ggcgacctgg tggactacat ctaccaagg cccatcttc tctgtctct gatcaatttc gtatttctgt tcaacatcgt caggatccta atgacaaagt tacgcgctc caccacatcc gagacaaacc agtacagga agcagtgag gccacctgg tgcctctgccc cctcctgggc atcacctaca tgcctctctt cgtcaatccc ggggaggagc acctgtcaca gatcatgttc atctatttca actccttctt gcagtcgttc cagggtttct tctgtctgt cttctactgc ttcttcaatg gagaggtgct ctcagccgtg aggaagaggt ggcacccgtg gcaggacct cactcccttc ggtccctcat ggcggggccc atgtccatcc ctacatcac cacacggatc agcttccaca gcatcaagca gacggccgct gtgtgacccc tgggtcggcc acctgcacag ctccctctc ctctccacc tcttctctt ggtttctctg tctgtggcag gctctcgtgg ggcaggagat gggaggggag agaccagctc tccagcctgg caggaaagag ggggtgccc agccaagggt gactgcaagg gacagggtg agtgggggcc accaggctca gcgcaagag agcagagagg aattcacagg acccctgag aagagccagt cagatgtctg caggcatttg cccatccag cctctctgag caggcccta ctggggcccag agcagagaag gacctgtcca acacacacag ctatttatag tagcacacac agggctcccc tgcctactc atggagccag cagccaggca atggtgtggc cctgactgg ccttggact ccacactcag tgggtgccc cagttgggtg ggttaacgccc aagcaaaagg tcaagttggc tgccttacc cagggtgctc acctagagag gctcactgt acccaccct gttcctgtgt cccctcccca gccatcctcc ccgcttggg ggtcccatga aggatgcagg ctccaggcc tggcttctc tcttgggaga cccttctct gctagtgcca cagattaggc aatcaaggaa gacgccatca gggaaagccac atccttagtc aaccagtgct atcgtgccc gcaaaatgag gacgagaggc atggagagg gagggctggg atgggaatag cagaaccacc atgtcttcag tgattgaaac tcatacccca ttgccccttg cctccagtc tccccttcag aaacatctct gctctctgtg aaataaacca tgctcttg	Homo sapiens

Homo sapiens

98	1240	Dopamine Receptor D1	NP_000785.1	<p> ttcgtgtgtg ttcatagtc atcaaacagg gacactacaa acatggggag ccataaggga catgtctttg gcttcagaat tgtttttaga aatttatctt tatcttagga ttaccacaa agggcaaaaga atcaacagtg aacagcttca cttaaaatca aattttctg ggaagaaat gagatgggtt gagtttgctg tacaacaaga ggtgctcaac ctgttccag caaagtcttc agattgtaaa ggtagtgca tgcctcata aattattct aaacattbaa ttgaggctta cagtaggagt gagaatttt ttccagaat ttccagatgt ttgttgata ttggttctat ttatttattg tataatgga ttttttaaat ttatgatata ataatatat attatcata ttaatatga taaattaatg agtttatcc aagacctac aaccacatt ctggccattt aactagcact ttataagcca atgaagcaaa cacacagact ctgtgagatt ctaaatgttc atgtgaact tctaga </p>	Homo sapiens
				<p> SVRLTACFL SLLILSTLIG NTLVCAAVIR FRHLRSKVTN P FFVISLAVSD LLVAVLWPEW KAVAEIAGFW PFGSFCNIWV AFDIMCSTAS ILNLCVISVD RYWAISSPFR YERKMTPKAA FILISVAVWL SVLISFIPVQ LSWHKAKPTS PSDGNATSLA ETIDNCSSSL SRTYAISVV ISEYIPVAIM IVTYTRIYRI AQKQIRRIAA LERAAVHAKN CQTTNGKPK VECSPQESSF KMSFKRETKV LKTLVINGV FVCCWLPFFI LNCILPFCGS GETQPCIDS NTFDFVWFG WANSSLNPII YAFNADFRKA FSTLLGCYRL CPATNNAIET VSINNGAAM FSSHHERGS ISKECNLVYL IPHAVGSSSED LKKEEAAGIA RPLEKLSPAL SVILDYDIDV SLEKIQPITQ NGQHPT </p>	
99	1241	Dopamine Receptor D5	NM_000798	<p> ggacagaggc agggctgaag ttgggacgc gacagacgc cccctgcagt ccagcccgaa A atgtgcgcgc caggagcaaa cggcaccgcg taccggggc agtgcgtct ataccagcag ctggcgccagg ggaacgcgt ggggggctcg gcggggggac cgcactggg gccctcacag gtggtcaccg cctgcctgct gaccctactc atcatctgga cctgctggg caacgtgctg gtgtgcgcag ccactgtgcg gagccgccac ctgcgcgcca acatgacca cgtcttcac gtgtctctgg ccgtgtcaga cttttctggt gcgtgctgg tcatgacctg gaaggcagtc gccgaggtgg ccggttactg gccctttgga gcgttctgag acgtctgggt gcccttcgac atcatgtgct ccactgcctc catcctgaac ctgtgcgtca tcagcgtgga ccgctactgg gccatctcca ggccttctcg ctacaagcgc agatgactc agcgcattgg cttggctcatg gtcggcctgg catggacctt gtccatctc atctcttca ttccgggtcca gctcaactgg cacagggacc agcgggcctc ttggggcggg ctggacctgc caaacaacct ggccaactgg acgcccctggg aggaggactt ttggggagccc gacgtgaatg cagagaactg tgactccagc ctgaatcgaa cctacgcat ctcttctcg ctcatcagct tctacatccc cgttgccatc atgategtga cctacacgcg catctacgc atgccccagg tgcagatccg caggatttcc tccctggaga gggccgcaga gcacgcgcag agctgccgga ctcgcgccgc gacaccagcc tgcgcgttc catcaagaag gagaccaag tctcaagac cctgtcgtg atcatggggg tcttctgtg ttgctggctg ccttcttca tcttaactg catggctcc ttctgcagtg gacacctga aggcctcgc gccggcttc cctgcgtcag tgagaccac ttgcagctct tcgtctggtt cggctggggt aactctcac tcaacccgt catctatgcc ttcaacgcgc actttcagaa ggtgtttgcc cagctgctgg ggtgcagcca cttctgtcc cgcacgccgg tggagacgtt gaacatcgc aatgagctca tctcctacaa ccaagacatc gtcttcaca aggaatcgc agctgcctac atccacatga tgcccaacgc cgttaccccc ggcaaccggg aggtggacaa cgacgaggag gagggtctct tgcgtcgat gttccagatc </p>	Homo sapiens

100	1241	Dopamine Receptor D5	NP_000789.1	<p> tatacagcgt cccagatgg tgacctgtt gctgactctg tctggagct ggactgcgag gggagattt ctttagaca aataacacct ttaccccg atggattcca ttaactgca ttaagaaacc cctcatgga tctgcataac cgcacagaca ctgacagca cgcacaca cgcaaatata tgcctttcca gtgctgtcc ctttacctg tgttctgtg tagtagctg tgtgttaga aacctaccc cattgattg tagtgaag aatggcaga atcagttgca ataaactcag tcaaatgtac ccagctacc agataggac caacgatcct atgagagaag agagtatggt gctgggtcct taaaaaaaa aatgatactt ggtccttaaa aatatgctc tccccctcct ttttaacaa atggctgtt cagtcactt tttgtgtttg aatgatttt taaacagcag gttgtgtgtg tgtgcagtga tgtgtggga gcacagcttt cctgggtctg gattcccggt gcttgtgtct tatgtcattt cttctctctg tgtgtgtggg ggcctcttta ccatagctta agaagtatcc ctgatttatt ctggtgtcta ataaacacag attatttga aaaaaaaa aaaaaaaaa aa </p>	Homo sapiens
101	1242	Dopamine Receptor D2	NM_000795	<p> MLPPGNGTA YPGQFALYQQ LAQNAVGGG AGAPPLGPSQ VVTACLTL ILIWTLLGNVL P VCAAIVRSRH LRANMTNVEI VSLAVSDFV ALLVMPKAV AEVAGYWPFG AFCDVWVAFD IMCSTASILN LCVISVDRYW AISRPFYKR KMTQRMALVM VGLAWTILS ILISFIPVQLNW HRDQAASWGG LDLPNNLANW TPWEEDFWEP DVNAENDSS LNRTYAISSS LISFYIPVAI MIVTYTRIYR IAQVQIRRI SLERAEHAQ SCRSSAACAP DTSLRASIKK ETKVLKTLISV IMGVFVCCWL PFFILNCMPV FCSGHPGPP AGFPCVSETT FDVFVFWGWA NSSLNPIVIYA FNADFQKFA QLLGSHFCS RTPVETVNIS NELISYNQDI VFHKEIAAY IHMPNNAVTP GNREVDNEE EGPFDRNFQI YQTSPPGDPV AESVWELDCE GEISLDKITP FTPNGFH agagctggc caccaggtg ctccacggcc ctgactgac cactgaatct gtcctggtat A gatgatgatc tggagaggca gaactgcaca ctgctcacc tgcctatcgc tgcctatcgc gacagacccc actacaacta ctatgcaca catggctgtg tcccgcgaga agcgctgca gaccaccc ttcggaacg tctgtgtgtg cgcagtgccc gacctcctcg tgcacacact ggtcatgccc aactacctga tctgcagcct cgcagtgccc gacctcctcg tgcacacact ggtcatgccc tgggtgtgtc acctggaggt ggtaggtgag tggaaattca gcaggattca ctgtgacatc ttcgtcactc tggacgtcat gatgtgcacg gcgagcattc tgaacttctg tgcctcagc atcgacaggt acacagctgt ggccatgccc atgctgtaca atacgcgcta cagctccaa cgccgggtca ccgtcatgat ctccatgctc tgggtcctgt ccttcaccat ctcctgccc ctcctcttcg gactcaataa cgcagaccag aacgagtga tcatggccaa cccggccttc gtggttact cctccatgt ctccttctac gtgccttca ttgtacacct gctggtctac atcaagatct acattgtcct ccgcagacgc cgcaagcgag tcaacaccaa acgcagcagc cgagctttca gggccacct gagggctcca ctaaaggga actgtactca ccccgaggac atgaaactct gcaccgttat catgaagtct atgggagtt tcccagtga caggcgga gtggaggtg ccgcgagcgc ccagagctg gagatggaga tgcctcctcag caccagccca cccgagagga cccgggtacag ccccatccca cccagcccac ccagctgac tctccccgac ccgtccacc atggttctca cagcactccc gacagccccg ccaaacca gaagaatggg catgccaaa accaccccaa gattgccaag atctttgaga tccagacct gcccaatggc aaaacccgga cctccctcaa gacctagc cgtaggagc tctcccagca gaaggagaag aaagccactc agatgtcgc cattgttctc ggcgtgttca tcatctgtg gctgcccctc ttcatcacac acatcctgaa catacactgt gactgcaaaa tcccgcctgt cctgtacagc </p>	Homo sapiens

102	1242	Dopamine Receptor D2	NP_000786.1	<p> gctttcacgt ggcgtgggcta tgtaacacgc gccgtgaacc ccatcatcta caccaccttc aacattgagt tccgaaggc cttcctgaag atcctccact gctgactctg ctgacctgccc gcacagcagc ctgcttccca cctccctgcc cagccggccc agcctcacc ccctgaaccg tgagcaggaa ggcctgggtg gatcgccctc ctctctctag ccccgccagg ccctgcagtg ttegttggc tccatgctcc tcaatgccc caccactca ctgcccagg gcagtgtctag tgagctggc atggtaccag ccctggggtt ggcctcagct caggggcagc tcatagagtc ccccccca cctccagtc cctatcctt ggccacaaag atgcagccgc ctctctgac cttctctgg ggcctaggg ttgctggagc ctgagtcagg gccagaggc tgagttttct ctttgggg cttggcgtgg agcaggcgggt ggggagagat ggacagttca caccctgcaa ggccacagg aggcaagcaa gctctctgc cgagagcca ggcaactca gtcctgggag acccatgtaa ataccagact gcagggttga cccgagagat tcccaagcca aaaaccttag ctcctccc caccagatg tggacctcta cttccaggc tagtcggac ccacctcacc ccgttacagc tcccaagtg gttccacat gctctgagaa gaggagccct catcttgaag ggccaggag ggtctatggg gagagaaact ccttgcccta gccacctg ctgcttctg acggccctgc aatgtatccc ttctcacgc acatgtggc cagcctggg cctggcaggg aggtcaggcc ctggaactct atctggcctt gggctaggga catcagaggt tcttgaggg actgcctctg ccacactctg acgcaaaacc actttcctt tctattcctt ctggccttc ctctcctctg tttcccttcc cttccactgc ctctgcctta gaggagccca cggctaagag gctgctgaaa accatctggc ctggcctggc cctgcccctga ggaaggaggg gaagctgcag cttgggagag cccctggg ctagactctg taacatcact atccgatgca ccaactaat aaaacttga cgagtcacct tc </p>	Homo sapiens
103	1243	Dopamine Receptor D3	NM_000796	<p> taagaaaaac ggatacattc gaaagcagct atgaacacatg cactaaggtc taataggga A gctggaaaaag cagcactcaa gtaatttcac cttagaggca aaaaagggtg attctttct gttcatttca tagtttctga gtcctgagaa aggcacaaagt tgctttgctt ggtatgtct gctgtcagta aatggctgca ggagccgaag tggtaaacct ctgggtctcc agaaatcaga agaaaattt aggaagcccc ttggcatcac gcacctccct cgggctctg gcactctga gtcagctgag tagccacctg aactacacct gtcgggcaga gaactccaca ggtgccagcc agcccccgc acatgcctac tatgcctct cctcatcgcg cctcatcctg gccatgctt tcggcaatgg cctggtgtgc atggctgtgc tgaaggagcg ggccctggag actaccaca actacttagt agtgagcctg gctgtggcag acttgcctgt ggcaccttg gtgatgccct gggtgtgata cctggaggtg acaggtggag tctggaaatt cagccgcatt tgcgtgtgatg ttttgtcac cctggatgct atgatgtga cagccagcat ccttaattct tgtgccatca gcatagacag gtacactgca gtggtcatgc ccgttacta ccagcatggc acgggacaga </p>	Homo sapiens

104	1243	Dopamine Receptor D3	NP_000787.1	<p>gctcctgtcg gcgcgtggcc ctcatgatca cggccgtctg ggtaactggc ttgtgtgtgt cctgcccctt tctgttttggc ttaataacca caggggaccc cactgtctgc tccatctcca acctgatttt tgteacttac tcttcagtgg tgctcttcta cctgcccctt ggagtactg tcctgttcta tgccagaatc tatgtgtgct tgaacaaaag gagacggaaa aggatctcta ctgcacagaa cagtcagtgc aacagtgtca ggcctggctt ccccaacaa accctctctc ctgacccggc acatctggag ctgaagcgtt actacagcat ctgccagag actgcccctg gtggaccagg ctccaagaa agaggaggag agttgaaaag agaggagaag actcggaatt ccctgagtc caccatagcg ccaagctca gcttagagt tcgaaaactc agcaatggca gattatgac atcttgaag ctggggcccc tgcaactcg gggagtgtca ctccgggaga agaaggcaac ccaaatgggt gccattgtg ttggggcctt cattgtctgc tggctgcctt tcttcttgac ccatgttctc aatacccaat gccagacatg ccacgtgtcc ccagagcttt acagtggccac gacatggctg ggtaactga atagcgccct caaccctgtg atctatacca cctcaatat cgacttcctg aaagccttc tcaagatcct gtctgtgtga gggagc</p>	Homo sapiens
				<p>P MAISLSQLSSH LNYTCGAENS TGASQARPHA YYALSICALI LAIVFNGNLV CMAVLKERAL QTTTNYLVVS LAVADLLVAT LVMPWVYVLE VTGGVWNPFR ICCDFVFTLD VMCTASILN LCAISIDRYT AVMPVHYQH GTQSSCHRV ALMITAVWVL AFAVSCPLLF GFNTTGDPTV CSISNPEDEVI YSSVVSFYL P FGVTVLVYAR IYVVLKQRRR KRILTRQNSQ CNSVRPGFPQ QTLSPDPAHL ELKRYYSICQ DTALGGPGFQ ERGGELKREE KTRNSLSPFI APKLSLEVRK LSNGRLSTSL KLGPLQPRGV PLREKKATQM VAIVLGAFIV CWLPFFLTHV LNTHCQTCHV SPELSATTW LGYVNSALNP VIYTFNIEF RKAFKLILSC</p>	
105	1244	Dopamine Receptor D4	NM_000797	<p>atggggaacc gcagcaccgc ggacggagc gggctgtctg ggcggcgccg cccggcgccg ggggcatctg cgggggcatc tgcggggctg gtcgggctg ggcggcgccg ggcggcgccg ggcgtgtctg tcateggcg ggtgctcg gggaaactgc tcttctatg tgagcctggc ggcggcgccg accgagcgcg cctgcaagc gccaccaa ccttctatg ttcgtctact ccgaggtcca ggtggcgcg ctcctcctcg cctcctctgt gctgcgctc ctcatggcca tggacgtcat gctgtgcacc tggtgtctga gcccgcct ctgcgacgc cccatagc gtggacaggt tgcgtgcccgt ggcgtgtccg gcctccatct tcaacctgtg cccatagc gtggacaggt tgcgtgcccgt ggcgtgtccg ctgcgtaca accggcaggg tgggagccgc cggcagctg tgctcatcg cgcacagtgg ctgctgtccg cggcggtggc ggcgcctga ctgtgcggc tcaacgaagt gcgcggcgcc gaccccgccg tgtgcgcct ggagaccgc gactacgtg cctactgtc cgtgtgtctc ttcttctac cctgcgcct catgtgtgtg cctactggg ccacgttccg cggcctgcag cgctggagg tggcagctg cgcgaagtg caggcccg ccccgccctc cccagagacc ctgcgcccc cctggcccg cttccccac gccaccccg ccccgccctc cccagagacc ctgcgcccc gactgtgcg ccccgcccg cggccttcc cggggctctt ggcggcccc ctgtgcccc gccggcccc gctcccccc ggacccctg ggccctccgt ggcggcccc cgcgccccg ctccccagg accctcgcg ccccgactgt ggcggcccc cgcggccct tccccgggt ccctggcg ccgactgtg ccccgcccg ccccgccctc cccagagacc ctgcgcccc gactgtgcg ccccgcccg cggcctcccc cgggacctc cgggacctc ctgtgtctcc cccagaccg tcagagccg cgcgtctcca cccagactc cccgagag cgcagagg cggcgtgcca agatcacgg cgggagcgc agggccatga ggtcctgcc ggtgtgtgtc ggggccctcc tctgtgtgtg gacgcccctt tctgtgtgtg acatcacgca ggcgtgtgt</p>	Homo sapiens

106	1244	Dopamine Receptor D4	NP_000788.1	<p>ccgtcctgct cctgtcccc cgtgtggtc agcgcctca cctggctggg ctacgtcaac agcgcctca acccgtcat ctacactgtc ttcaacgcgc agttccgcaa cgtcttcgcg aaggccctgc gtgcctgctg ctgagccggg caccgccgga cgcgcccggt cctgatggcc aggcctcagg gaccaaggag atggggaggg cgcttttcta cgtaataaa acaattctc tccc</p>	Homo sapiens
107	1267	Opioid Receptor, delta 1 (OPRD1)	NM_000911	<p>MGNRSTADAD GLLAGRPAA GASAGASAGL AQGGAALVG GVLLIGAVLA GNSLVCVSV A P TERALQTPTN SFIVSLAAD LLLALLVPL FVYSEVOGGA WLLSPRLCDA LMAMDVMLCT ASIFNLCAIS VDREVAVAVP LRYNRQGSR RQLLLIGATW LLSAAVAAPV LCGLNDVVRG DPAVCRLEDR DYVYSSVCS FFLPCPLMLL LYWATFRGLQ RWEVARRAKL HGRAPRRPSG PGPPSTPPA PRLPQDPCGP DCAPPAPGLP RGPCGPDPCP AAPGLPPDPC GPDCAAPPAG LPQDPCGPDG APPAPGLPRG PCGPDCAAPP PGLPQDPCGP DCAPPAPGLP PDPCGSNCAP PDAVRAAALP PQTPPQTRRR RRAKITGRER KAMRVLPPVV GAFLLCWTFP FVHITQALC PACSVPPRLV SAVTWLGYVN SALNPVIYTV FNAEFRNVFR KALRACC</p>	Homo sapiens
				<p>ccgaggagcc tgcgtgctc ctggctcaca gcgctccggg cgaggagagc gggcgagccg A gggggctggg ccggtgctgg cgcgaggca ggcggacgag gcgcagagac agcggggcgg ccggggcgcg gcacggcgcg ggtcggggcg ggcctctgcc ttgcgctcc cctcgcgtcg gatecccgcg ccaggcagc cggtagagag ggcggcgcg gacgcggca gccatggaa cgccccctc cgccggcgcc gagctgcagc cccgcctctt cgccaaagcc tcggagcct accctagcgc ctccccagc gctggcgcca atgcgtcggg gccgccagga ccggggagcg cctgtccctt cgccctggga atgcctatca cgcgcctga cgcggcgtg tgcgcctgg ggctgtggg caactgctt gtcattgtcg gcatcgtcg gtacactaag atgaagacgg ccaccaacat ctacatctc aacctggcct tagccgatgc gctggccacc agcacgtgc ctttccagag tgccaaagac ctgatggaga cgtggccctt cggcgagctg ctctgcaagg ctgtgctctc catgactac tacaatatgt tcaccagcat cttcacgctc accatgatga gtgtgaccg ctacatcgt gtctgccacc ctgtcaaggc cctggacttc cgacgcctg ccaaggccaa gctgtgaac atctgtatct ggtccctggc ctcaggcgtt ggcgtgccc tcatggtcat ggctgtgacc cgtcccgggg acggtgcagt ggtgtgcagt ctcagttcc ccagcccgag ctggtactgg gacacggtga ccaagatctg cgtgttctc ttgccttcg tggtgcccc cctcatcacc accgtgtgct atggcctcat gctgctgcg ctgcgcagt tgcgctgct gtccgggctcc aaggagaagg accgcagcct gcggcgcatc acgcgcatgg tgctgtggt tgtggcgcc ttctgtgtgt gttggcgcc catccacatc ttctcatcg tctggacgt ggtggacatc gacggcgcg acccgctggt ggtggctggt ctgcacctgt gcatcgctt gggctacgcc aatagcagcc tcaacccctt gctctacgt ttctctgacg agaaactcaa gcgtgcttc cgccagctct gccgcaaggc tgcggcgcc ccagacccca gcagcttcag ccggcccgcc gaagccacgg ccgcgagagc tgcacccgc tgcacccgt ccgatgtcc cgcggtggc cgtgcgcctt gaccaggcca tccggcccc agaccccc ccctagtgt acccgaggc cacatgagtc ccagtggag gcgcgagcca tgatgtggag tggggccagt agataggtcg gaggctttg ggaccggcag atggggcctc tgttcggag acgggaccgg gccgctagat gggcatgggg tgggctctg gtttggggg aggcagagga cagatcaatg gcgcagtgc tctggtctgg gtgccccctt ccacggctct aggtggggcg ggaaagccag tgactccagg agaggagcgg gactgtggc tctacaactg agtctttaa</p>	

108	1267	Opioid Receptor, delta 1 (OPRD1)	NP_000902.1	ccaggatct ccaggaaggc ggggcttcaa ccttgagaca gcttcgggtt ctaacttgga gccgacttt cggagtggg ggggtccggg ccc AVGLGNVLV MFGIVRYTKM KTATNIYFN LALADALATS TLPFQSAKYL METWPFGEILL CKAVLSIDY NMFTSFTLT MMSVDRIYAV CHPVKALDER TPAKAKLINI CIWVLASGVG VPIMMAVTR PRDGAUVCM L QFPSWYWD TVTKICVFLF AFVPIIIT VCYGLMLRL RSVRLLSGSK EKDRSLRIT RMVLVVVGA F VVCWAPIHIF VIVWTLVDID RRDPLVVAAL HLCIALGYAN SSLNPVLYAF LDENFKRCFR QLCRKPCGRP DPSSFSPRE ATARERTAC TPSDPGGGR AA	Homo sapiens
109	1424	Duffy Antigen	NM_002036	gggctgaac caaacggtgc catggggaac tgtctgaca gggtagtat ggggccaggc A cccagagtcc cttatcccta tgcccctcat ttcccctgct gtttgcctt cagtcctttat atctcttctt ttctctctc atctttctc ccttccgct ttttctctt tcttcaaaag tcttttctt tctctcttc ctatctagc ctctagtc cctcttggt cctcccttt gccttgagt cagttccatc ctggtctctt ggtgccttc cttctgact tgcactgtc ctccagccc agctgccctg gcttcccag gactgttctt gctccggctc ttcaggctcc ctgctttgtc ctttccact gtccgactg catctgact ctgcagagac cttgttctcc cacccgact tctctctgt cctccctcc cactgcccc tcaattccca ggagactctt ccggtgtaac tctgatggcc tctctgggt atgtctcca ggcggagctc tccccctcaa ctgagaactc aagtcagctg gacttcgaag atgtatgaa ttcttctat ggtgtgaatg attccttccc agatggagac tatgatgcca accgtgcccc tgcactcct gtaacctgct ggatgactct gcactgctt tcttcatct caccagtct ctgggtatcc tagctagcag cactgtctc ttcattgtt tcagacctt cctccgctgg cagctctgcc ctggctggcc tgtctcggca cagctggctg tgggcagtc cctctcagc attgtgtgc ccgtcttggc cccagggcta ggtagactc gcagctctgc cctgtgtagc ctgggctact gtgtctggta tggctcagcc ttgcccagg ctttgcgtt aggtgccat gcctccctgg gccacagact ggggtcaggc caggtcccag gcctaccct ggggctcact gtgggaattt ggggagtggc tgccctactg acactgctg tcacctggc cagtggtgt tctggtggac tctgcaacct gatatacagc acggagctga aggttttga gccacacac actgtagcct gtcttgccat ctttctctt ttgcccattg gtttgttgg agccaaaggg ctgaagaagg cattgggtat ggggccaggc cctgggatga atatcctgt ggcctgggtt atttctggt ggcctcatgg ggtggttcta ggaactgatt tctgtgtgag gtccaaagtg ttgctgtgtg caacatgtct ggcaccagc gctctggacc tgcgtctgaa cctggcagaa gccctggcaa ttttgactg tgtggctacg cccctgctc tcgcccatt ctgccaccag gccaccgca ccctcttgc cttctctcc cctccgaag gatgcttc tcatctggac accctggaa gcaatccta gttctctcc cactgtcaa cctgaattaa agtctacat gcctttgtg NP_002027.1 MASSGVVLA ELSPSTENS QLDFEDVNS SYGVNDSFDD GDYDANLEAA APCHSCNLLD P DSALPFILT SVLGILASST VLFMLFRPLF RWQLCPGWPV LAQLAVGSAL FSIVPVLAP GLGSTRSSAL CSLGYCVWYG SAFAQALLLG CHASLGHRLG AGQVPGTLTG LTVGIWGVAA LTLPTVLAS GASGGCLTLI YSTELKALQA THTVACLAF VLLPLGLFGA KGLKKALGMG PGPWNILWA WFIFWPHGV VLGLDFLVR KLLLLSTCLA QQALDLLNL AEALAILHCV ATPLLLALFC HQATRTLLPS LPLPEGWSSH LDTLGSKS	Homo sapiens

111	1451	EBV-Induced Gene 2	NM_004951	ggaattccct gatatacc tgaccacca ccaatggata tacaatggc aaacaatttt A actcgccct ctgcaactcc tcagggaat gactggacc tctatgcaca tcacagcacg gccagatag taatgcctct gcattacagc ctgctctca tcattgggt cgtgggaaac ttactagcct tggctgctcat tgttcaaac aggaaaaaa tcaactctac caccctctat tcaacaatt tggtagtttc tgataactt ttaccaccg cttgcttac acgaatagcc tactatgcaa tgggctttga tcgagaatc gtagtagcct tgttaggat aactgcgcta gtgttttaca tcaacacata tgcaggtgtg aacttttga cctgctgag tattgaccgc ttcattgtctg tggcgaccc tctacgtac aacaagataa aaaggattga acatgcaaaa ggcgtgtgca tattgtctg gattctagta ttgctcaga cactccact cctcatcaac cctatgtcaa agcaggaggc tgaaggatt acatgcattg agtatccaaa ctttgaagaa actaaatctc ttccctggat tctgctggg gcattgttca taggatattg acttccactt ataatcattc tcactgtcta ttctcagatc tctgcgaac tcttcagaac tgccaaacaa aacccactca ctgagaatc tgggttaac aaaaaggctc tcaacacat tattcttatt attgtgtgtg ttgtctctg ttccacact taccattgtg caattattca acatatgatt aagaagcttc gtttctctaa ttctctggaa ttagtccaaa gacattcgtt ccagatttct ctgcactta cagtatgct gatgaactc aatgctgca tggaccctt tatctacttc tttgcagtga aagggtataa gagaaaggtt atgaggatgc tgaacggca agtcagtgtg tcgatttcta gtctgtgaa gtcagccct gaagaaatt cactgaaat gacagaaacg cagatgatga tacattccaa gtcttcaat ggaagtga atggattga ttttggttta tagtgacgta aactgatga caaacttgc aggacttccc ttataaagca aaataattgt tcagcttcca attagattc ttttatttt ctttcttgg gcactttccc acttccaaact cggaagtgaag ccaagagaa caacataaag caacacacat aaagcacaat aaaaatgcaa ataaatattt tcatttttat ttgtaacga atacaccaa aggagggcct cttaataact cccaatgtaa aaagttttgt ttaataaaa aatttaatta ttatttctg ccaacaaatg gctagaagg actgaataga ttatatattg ccagatgta atactgtaac atacttttta aataacatat ttcttaaatc caaatttctc tcaatgttag atttaattcc ctcaataaca ccaatgtttt gtttgttct gtctgggtc ataaaacttt gtaagggaac tcttttgaa taaagagcag gatgctgc	Homo sapiens
112	1451	EBV-Induced Gene 2	NP_004942.1	MDIQMANNFT PPSATPQND CDLYAHSTA RIVMPLHYSL VFIIGLVGNL LALWIVQNR P KKINSTIYS TNLVISDILF TTALPTRIAY YAMGFDWRIG DALCRITAV FYINTYAGVN FMTCLSIDRF IAVVHPLRYN KIKRIEAKG VCIFVWLVF AQTLP LLINP MSKQEAERIT CMEYPNFEET KSLPWILLGA CFIGYVLP LI IILICYSQIC CKLFRTAKQN PLTEKSGVVK KALNTIILII VFEVLCFTPY HVAIIQHNIK KLRFSNFLEC SQHSFQISL HFTVCLMNFN CCMDPFIYFF ACKGYKRRVM RMLKRQVSVS ISSAVKSAPE ENSREMTETQ MMIHSKSSNG K	Homo sapiens
113	1486	Endothelin B Receptor	NM_000115	gagacattcc ggtgggggac tctggccagc ccgagcaacg tggatctcga gagcactccc A aggtaggcatt ttgccccggt gggacgcctt gccagagcag tgtgtggcag gccccgtgg aggatcaaca cagtggctga acactggga ggaactggta cttggagtct ggacatctga aacttggctc tgaactgagc cagcgccac cggacgcctt ctggagcag tagcagcatg cagccgcctc caagtctgtg cggacgcgc ctggttctgc tggttctgc ctgcggcctg tcgcggatct ggggagagga gagaggcttc ccgcctgaca gggccactcc gcttttgcaa	Homo sapiens

accgcagaga taatgacgcc accactaag acctatggc ccaagggttc caacgccagt
ctggcggggt cgttggcacc tgcggagggtg cctaaaggag acaggacggc aggatctccg
ccacgcacca tctccctcc cccgtgccaa ggacctatcg agatcaaggga gactttcaaa
tacatcaaca cggttgtgtc ctgccttgtg ttcgtgtgtg ggatcatcgg gaactccaca
cttcgagaa ttatctaca gaacaagtgc atgcgaacg gtcccaatat cttgatcgcc
agcttgggtc tggagacct gctcacatc gcatatgaca tccctataa tgtctacaag
ctgcctggcag aggaactggcc atttgagct gagatgtga agctgtgccc tttcatacag
aaagcctccg tgggaatcac tgtgctgagt ctatgtgtc tgagtattga cagatatoga
gctgtgtctt cttggagtag aattaaaggga attgggttc caaatggac agcagttaga
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ataattacga tggactacaa aggaagtat ctgcgaatct gcttgcttca tccgttcag
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tataatactt ttaaaagaa aattattaca tctttactat tcagttaaaga tcaaacctca
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gcaggtagca cctctctca cccatgctgt ggttaaaatg gtttctagca tatgtataat
gctatagtta aaatactatt tttcaaaatc atacagatta gtacatttaa cagctacctg
taagcttat tactaaattt tgtattattt ttgtaaaatg ccaatagaaa agttgtctg

114	1486	Endothelin B NP_000106.1	Receptor	<p> acatggtgct tttctttcat cttagagcaa aactgctttt ttgagaccgt aagaacctctt agctttgtgc gttctgcct aattttata tcttctaagc aaagtgcctt aggatagctt ggatgagat gtgttgaaa gtatgtacaa gagaaaaagg aagagagagg aaatgaggtg gggttgagg aaacctagg ggacagattc ccattcttag cctaaccgtc gtcattgcct cgtcacatca atgcataagg tctgatttt gtccagcaa aacacagtgc aatgttctca gagtacttt cgaataaat tgggccaag agcttactt cggcttcaa atatgcccaa atattactt tgttttctt ttaatagggt ggccacatg ttgaaataa gctagtaatg ttgtttctg tcaatatga atgtgatgtt acagtaacc aaacccaac aatgtggcca gaaagaaaga gcaataataa ttaattcaca caccatagg attctatta taaatcacc acaaactgt tctttaattt catccaatc acttttcag aggcctgtta tcatagaagt catttagac tctcaatttt aaattaattt tgaatcata atattttcac agtttataa tataattaat ttctattaa attttagatt attttatta ccatgtactg aattttaca tctgatacc cttctcttct ccatgtcagt atcatgttct taaattatct tgccaaattt tgaaactaca caaaaaagc atacttgcatt tattataat aaaaatgcatt tcaagtgcct tttaaaaaa atgtttgatt caaaacttta acatactgat aagtaagaaa caattataat ttctttacat actcaaaacc aagatagaaa aaggtgctat cgttcaactt caaaacatgt ttcctagtat taaggacttt aatatagcaa cagacaaaat tattgttaac atggtgtta cagctcaaaa gatttataa agattttaac ctattttct cctattatc cactgctaatt gtggtgtat gttcaaacac cttttagat. tgatagctta catatggcca aaggaataca gtttatagca aaacatgggt atgtgttagc taactttata aagtgtaatt ataacaatgt aaaaaattat atactgtgga ggttttttg gttgcctaaa gtggtctatg ttaactgatt tttattatgt aagcaaaaacc aataaaaatt taagtttttt taacaactac cttattttt actgtacaga cactaattca ttaataacta attgattgtt taaaagaaa ataaatgtga caagtggaca ttatttatgt taaatataca attatcaagc aagtatgaag ttattcaatt aaaatgccac atttctgtc tctggg </p>	Homo sapiens
115	1488	Endothelin A NM_001957	Receptor	<p> SLARSLAPAE VPKGDRTAGS PPRTISPPPC QGPIEIKETF KYINTVVSCL VFVLGIIGNS TLRIITYKNK CMRNGNILI ASLALGDLH IVIDIPINVI KLLAEDWPFV AEMCKLVPFI QKASVGITVL SLCALSIDRY RAVASWSRIK GIGVPKWTAV EIVLIWVSV VLAVPEAIGF DIITMDYKGS YLRICLLHPV QKTAFMQFYK TAKDWLFSF YFCLPLAITA FFYTLMTCEM LRKSGMQIA LNDHLKORRE VAKTVFCLVL VFALCWLPLH LSRILKLTLY NQNDPNRCEL LSFLLVLDYI GINMASLNSC INPIALYLS KRFKNCFKSC LCCWCQSFE QSLSEKQSC LKFKANDHGY DNFRSSNKYS SS gaatttcgag cgcctcttg cgggtccaga gtggagtga aggtctggag ctttggagg A agacggggag gacagactgg aggcgtgttc ctccgaggt tctttttcg tgcgagccct cgcgcgcggg tacagtcat cgcgtgtct gagaggtgt gagagcggt ggagagcctt catccatccc acccgtctgt cgcgtgggat tgggtgtcca gacacaccc cccgggagaa gcagtgcga ggaagtcttc tgaagccggg gaagctgtgc agccgaagcc gccgcgcgc cggagccggg gacaccggcc accctccgg ccaccaccc tgcctttct cggcttctc tgccccaggc gccgcggga cccggcagct gtctgcgac gccgagctcc acggtgaaaa aaaaagtga ggtgtataag cagcacaaat gcaataagag atatttctc aaatttgcct </p>	Homo sapiens

caagatggaa accctttgccc tcagggcac cttttggctg gcactgggtg gatgtgtaat
cagtgataat cctgagagat acagcacaaa tctaagcaat catgtggatg atttcaccac
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aactctgtc aggatcatt acccttgag accttatcta tgtgtcatt gatctcccta tcaatgtatt
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aatcctctcg gagaaaaaa tcacaaggca actgtgactc cgggaatctc ttctctgac
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acacaaattc taaagctaca acaataacta caggccctta aagcacagtc tgatgacaca
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cacctccat tctcttaatt tttgttaaaa tgttaactgg cagtaagtct tttttgatca
ttccctttc catataggaa acataattt gaatgggcca gatgagtta tcatgtcagt

116	1488	Endothelin A Receptor	NP_001948.1	<p>gaaaaataat taccacaaa tgccaccagt aacttaacga ttcttcactt ctgtggggttt</p> <p>tcagtatgaa cctaactccc caccacaaca tctccctccc acattgtcac catttcaag</p> <p>ggccacagt gacttttgcg gggcattttc ccagatgttt acagactgtg agtacagcag</p> <p>aaaatctttt actagtgtg gtgtgtatat atataacaa ttgtaaattt cttttagccc</p> <p>atctttctag actgtctctg tggaatatat ttgtgtgtgt gatatatgca tgtgtgtgat</p> <p>ggtatgtatg gatttaactt aatctaataa ttgtgccccg cagttgtgcc aagtgcata</p> <p>gtctgagcta aaatctaggt gattttcat catgacaacc tgcctcagtc cattttaacc</p> <p>tgtagcaacc ttctgcatc ataatcttg taactatgtt accattacaa atgggatata</p> <p>agaggcagcg tgaagcaga tgagctgtgg actagaata taggggtttg ttgggttgtt</p> <p>tggttgata aagcagtatt tgggtcata ttgttctctg tgcggagca aagtcatta</p> <p>cacttgaag tattatatg ttcttatctt caattcaatg tgggtatgaa attgccaggt</p> <p>tgctgatatt ttctttcaga ctctgccaga cagattgtg ataataaatt aggtaagata</p> <p>atttgtggg ccataattta ggacaggtaa aataacatca ggtccagtt gctggaattg</p> <p>caaggctaag aagtactgcc ctttgtgtg ttagcagca atctattat tccactggcg</p> <p>catcatatgc agtataatat gcctataata taagccatag ttccacacca ttttgtttag</p> <p>acaattgtct tttttcaag atgctttgtt tctttcatat gaaaaaatg cattttata</p> <p>attcagaaag tcatagatt ctgaaggcgt caacgtgcat tttattatg gactggtaa</p> <p>taactgtggt ttactagcag gaattattcc aatttctacc tttactacat cttttcaaca</p> <p>agtaactttg tagaaatgag ccagaagcca aggccctgag ttggcagtg ccataaagt</p> <p>taaaaataaa gttacagaa acctt</p> <p>METLCIRASF WLALVGCVIS DNPERYSTNL SNHVDDFTTF RGTLSFLVT THQTNLVLP P</p> <p>SNGMHNYCP QQTKITSAFK YINTVISCTI FIVGMVGNAT LLRIYQNK MRNGPNALIA sapiens</p> <p>SLALGDLIY VIDLPINVEK LLAGRWPFDH NDFGVFLCKL FPFLQKSSVG ITVLNLCALS</p> <p>VDRYRAVASW SRVQIGIPL VTAIEIVSIW ILSFILAPE AIGFVMVPE YRGEQHKTCM</p> <p>LNATSKEMEF YQDVKDWLFL GFYFCMPLVC TAIFYTLTMC EMLNRRNGSL RIALSEHLKQ</p> <p>RREVAKTVFC LVVIFALCWF PLHLSRLKK TVYNEMDKNR CELLSFLLM DYIGINLATM</p> <p>NSCINPIALY FVSKKFKNCF QSCLCGCCYQ SKSLMTSVPK NGTSIQWKNH DQNNHNTDRS</p> <p>SHKDSMN</p>	Homo sapiens
117	1598	Calcium-Sensing Receptor (CASR)	NM_000388	<p>caacaggcac ctggctgcag ccaggaagga ccgcacgccc ttctgcgcag gagagtggaa A</p> <p>ggaggagct gtttgccagc accgaggtct tgcggcacag gcaacgcttg acctgagctt</p> <p>tgcaaatga aaggcatcac aggggcctc tgcattgagt ggcttccaaa gactcaagga</p> <p>ccaccacat tacaagtctg gattgagga ggcagaaatg gagattcaaa caccacgtct</p> <p>tctattattt tattaatcaa tctgtagaca tgtgtcccca ctgcaggagg tgaactgctc</p> <p>caaggagaa acttctggga gcttccaaac tctatgctgt ctcctccctt gccctggaga</p> <p>gacggcagaa ccatggcatt ttatagctgc tctgggttcc ttctggcact cactggcac</p> <p>acctctgctt acgggccaga ccagcagcc caaagaaggg gggacattat ccttgggggg</p> <p>ctctttctta ttcatatttg agtagcagct aaagatcaag atctcaaatc aagggcggag</p> <p>tctgtggaat gtatcaggta taatttcgt gggtttcgct ggttacaggc tatgatattt</p> <p>gcatataggg agataaacag cagcccagcc ctcttcccca acttgacgct gggatcacagg</p> <p>atatttgaca cttgcaacac cgtttctaag gccttggag ccacctgag ttttgttgc</p> <p>caaaacaaaa ttgattcttt gaaccttgat gagtctgca actgctcaga gcacattccc</p>	Homo sapiens

tctacgattg ctgtggtggg agcaactggc taggggtctt ccacggcagt ggcaaatctg
ctggggtctt tctacattcc ccaggtcagt tatgctcctt ccagcagact cctcagcaac
aagaatcaat tcaagtcttt cctccgaacc atcccaaatg atgagcaca ggccactggc
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gagatgaga tcatcttcat cactgcccac gagggctccc tcatggccct gggttctctg
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aagagcaaca gcgaagaccc attccacag cccgagagc agaagcagca gcagccgctg
gccctaacc agcaagagca gcagcagcag ccctgacc tcccacagca gcaacgatct

118	1598	Calcium- Sensing Receptor (CASR)	NP_000379.1	MAFYSCCWVL LALTWHTSAY GPDQRAQKKG DIILGGLFPI HFGVAAKDQD LKSRPESVEC P IRYNFRGFRW LQAMIFAIEE INSSPALLPN LTLGYRIFDT CNTVSKALEA TLSFVAQNKI DSLNLDEFN CSEHIPSTIA VGATGSGVS TAVANLLGLF YIPQVSYASS SRLLSNKNQF KSFRLTIPND EHQATAMADI IEYFRWNWVG TIAADDDYGR PGIEKFREEA EERDIDICDFS ELISQYSDEE EIQHVVVEVIQ NSTAKVIVVF SSGPDLEPLI KEIVRRNITG KIWLASEAWA SSSLIAMPQY FHVVGGTIGF ALKAGQIPGF REFLLKKVHPR KSVHNGFAKE FWEETFNCHL QEGAKGLPV DTFLRGHEES GDRFSNSTA FRPLCTGDN ISSVETPYID YTHLRISYNV YLAVYSIAHA LQDIYTCPLG RGLFTNGSCA DIKKVEAWQV LKHLRLHNF NMGEQVTFD ECGDLVGNYS IINWHLSPED GSIVFKEVGY YNVYAKKIGR LFINEEKILW SGFSREVFPFS NCSRDLCLAGT RKGIIIEGPT CCFECVECPD GEYSDETDAS ACNKPDDFW SENHTSCIA KEIEFLSWTE PFGIALTLFA VLGIFLTAfV LGVFIKFRNT PIVKATNREL SYLLLSLLC CFSSSLFFIG EPQDWTCLRL QPAFGISFVL CISCILVKTN RVLLVFEAKI PTSFHRKWWG LNLQFLLVFL CTFMQIVICV IWLYTAPSS YRNQELEDEI IFITCHEGSL MALGFLIGYT CLLAATCFFF AFKSRKLPEN FNEAKFITFS MLIFFIVWIS FIPAYASTYG KFVSAVEVIA ILAAAFGLLA CEFENKIYII LFKPSRNTIE EVRCSTAAHA FKVAARATLR RSNVSRKRSS SLGGSTGSTP SSSISSKSN EDFFPOPERQ KQQQLALTQ QEQQQQLTL PQQRSQQQP RCKQKVI FGS GTVTFSLSFD EPQKNAMAHG NSTHQNLSLEA QKSSDTLTRH QPLLPLQCGE TDLDLTVQET GLQGPVGGDQ RPEVEDPEEL SPALVVSQQ SFVISGGGST VTENVVNS	Homo sapiens
119	1676	Formyl Peptide Receptor- Like Receptor	NM_001462	ggcacgagga acaacctatt tgcaaatgtg gcgcaaacat tcctgcctga caggaccatg A gacacaggtt gtagagatag agatggctct ggctgtgcat tcagcagatt ctgtagatag aattaatagg acttggatgg gattgtgttg agagaaagtg aatgaaaga taagtcttag tttggaggtt ttaacaactg aatgttttaa ctcaaataga cacaaaatat tggaagagtg gcaggttttg gaggatgaga caatcaactg tttgggttag ccacgttagg tttgaaatgt ctacgggac ccgtggggag aggttatatc agactggagc accagagaga ggccaaggct gatagtttag atgaaaagag agcatgatat ttaagacct gagactggat aatatcacct atagaaaagac tatatagaga taagagaggt gggaacaaq taaaagctgc ggacactcc taaaatttaga gtcaaattta gagcagaaaa tactagcaa ggggactgaa aagcgttggc caattgagct tcaaatgcaa gtgaaagtgt gttgtgtgta cattatcat ctcatggcac agggaaaaacg tgatttaagg agaaggaagc gatccaatgg gaagaagaga tccaatggat cctctatcac gaagatatgt agataagaac caatatggat ttgcacccac tgcatttgca gccttgaggt cataagcatc ctcaggaaaa tgcaccaggt gctgctggca agatggaaac	Homo sapiens

120	1676	Formyl Peptide Receptor- Like Receptor	NP_001453.1	caactttctcc actcctctga atgaatatga agaagtgtcc tatgagtctg ctggctacac tggtctggcg atcctcccat tgggtgtgct tgggttcacc tttgtctcg gggctcctgg caatgggctt gtgactggg tggctggatt ccgagtaca cgcacagtca ccaccatctg ttacctgaac ctggccctgg ctgacttttc tttcaggcc cattaccat tctcattgt ctccatggcc atgggagaaa atggccttt tggctggctc ctgtgtaagt taattcacat cgtgtggac atcaacctct ttggaagtgt ctctctgatt gtttcattg cactggaccg ctgcatttgt gtcctgcac cagtcctggc ccagaaccac cgcactgtga gtcggccat gaaggatc gtcggacctt ggattcttg tctagtcctt acctggccag tttcctctt tttgactaca gtaactattc caaatgggga cacatactgt actttcaact ttgcactctg gggtggcacc cctgagaga ggtgaaggt ggcattacc atgctgacag ccagaggat tatccggtt gtcattggct ttagcttgcc gatgtccatt gttgccatct gctatgggt cattgcagcc aagatccaca aaaggccat gattaaacc agcgtccct tacgggtcct cactgtgtg tgggtctctt tcttcactg ttggtttccc tttcaactgg ttgcccctt gggcaccgtc tggctcaaa agatgtgtt ctatggcaag tacaaaaatca ttgacatct ggttaacca acgagctccc tggccttctt caacagctgc ctcaaccaca tgccttaact cttgtgggc caagactcc gagagact gatccactcc ctgccacca gctggagag ggccctgtct gagactcag ccccaactaa tgacacggt gccaatctg ctccactcc tgacagact gattacagg caatgtgag atgggtcag gatatattg agttctgttc atcctacct aatgccagt ccagcttcat ctaccctga gtcataatga ggcattcaag gatgcacgc tcaagtattt attcaggaaa aatgctttg tgcctctgat ttgggctcaa gaaatagaca gtcaggctac taaaatatta gtgtatttt ttgtttttg acttctgct ataccctggg gtaagtggag ttgggaaata caagaagaga aagaccagt gggattgtga agacttagat gagatagcg ataataagg gaagacttta aagataaag taaaatgttt gctgtagggt ttttatagct attaaaaaaa atcagattat ggaagttttc tctattttt agtttgctaa gattttctg tttctttttc ttacatcatg agtgacctt gcattttatc aaatgcattt tctacatgta ttaagatggt catattattc tcttctttt atgtaaatca ttataataa tgttcattaa gttctgagtg ttaaaactact cttgaattcc tggaataaac cacactagt cctgatgtac tttaaatatt tatattctac aggagttgtg tagaatttct gtgtttatgt ttataactg ttatttcaact ttttctacta tctttgctaa gttttcatg aaaaaagga acaaagaaa acttgtaatg gtcctgaaa aggaattgag aagtaattcc tctgattctg tttctgggtg ttatatcttt attaaatatt cagaaaaatt c TICYNLALA DFSFTALPF LIVSMANGK WPFGWFLCKL IHIVVDINLF GSVFLIGFIA LDRCICVLHP VQAQNHRTVS LAMKVIVGFW ILALVLTLPV FLFLTITVIP NGDYCTFNF ASWGGTPEER LKVAITMLTA RGIIRFVIGF SLPMISIVAIC FLIAAKIHK KGMIKSSRPL RVLTAVVASF FICWFFPOLV ALLGTVMWKE MLFYKXYKII DILVNPTSSL AFFNSCLNPM LYFVGGQDFR ERLIHSLEPS LERALSDESA PTNDTAANSA SPPAETELQA M	Homo sapiens
121	1681	Follicle Stimulating Hormone Receptor	NM_000145	cgctgagatc tgtggaggtt tttctctgca aatgcagaaa gaaatcaggt ggatggatgc A ataattatgg cctgctcctt ggtctctttg ctggcattcc tgagcttggg ctcaggatgt catcatcgga tctgtcactg ctctaacagg gtttttctct gccaaagagag caaggtgaca gagattcctt ctgacacctcc gaggaatgcc attgaaactga ggtttgtcct caccaagctt	Homo sapiens

122	1681	Follicle Stimulating Hormone Receptor	NP_000136.1	<p> cagatcatcc aaaaaggtgc attttcagga ttgggggacc tggagaaaaat agagatctct cagaatgatg tcttgagggt gatagaggca gatgtgttct ccaaccttcc caaattacat gaaattagaa ttgaaaaggc caacaacctg ctctacatca cccctgaggc ctccagaac cttcccaacc ttcaatatct gtaaatatcc aacacaggtt ttaagcacct tccagatgtt cacaagattc attctctcca aaaggtttta ctgacattc agataaacat aacatccac acaattgaaa gaaattcttt cgtggggctg agctttgaaa gacccaact agatgcagt aagaaatggga ttcaagaat acacaactgt gattcaatg gaaccaact agatgcagt aatctaagcg ataataaa tttagaaga ttgcctaag atgtttcca cggagcctct ggaccagtca ttctagatat ttcaagaaca aggatccatt cctgcctag ctatggctta gaaaatctta agaagctgag gcccaggtcg acttacaact taaaaaagct gcctactctg gaaaagcttg tcgcccctcat ggaagccagc ctacactatc ccagccattg ctgtgccttt gcaaacctga gacggcaaat ctctgagctt catccaattt gcaacaaatc tattttaagg caagaagctg attatatgac tcaggctagg ggtcagagat cctctctggc agaagacaat gagtcagct acagcagagg atttgacatg acgtacactg agtttgacta tgacttatgc aatgaagctg ttgacgtgac ctgctccctt aagccagatg cattcaacc atgtgaagat atcatggggt acaacatctt cagagtcctg atatggttta tcagcatcct ggccatcact gggaacatca tagtctagt gatcctaact accagccaat ataaactcac agtccccagg ttccttatgt gcaacctggc ctttgctgat ctctgcatg gaatcactc gctgctcatt gcatcagttg atatccatac caagagccaa tatcacaact atgccattga ctggcaaac gggcaaggct gtgatgctgc tggctttttc actgtctttg ccagttagct gtcagctcac actctgacag ctatcacctt ggaagatgg cataccatca cgcattgcat gcagctggac tgcaaggtgc agtcccgcca tgcctgcaat gtcattggga tgggctggat ttttgctttt gcagctgccc tcttcccat ctttggcatc agcagctaca tgaaggtgag catctgcctg ccatggata ttgacagccc ttgttcacag ctgtatgtca tgtccctct tgtgctcaat gtcctggcct ttgtggctcat ctgtggctgc tatatccaca tctacctcac agtgcggaac cccaacatcg tctctctctc tagtgacacc aggatcgcca agcgcattgc catgctcac ttcactgact tctctgcat ggcacctt tctttcttgc ccatttctgc ctccctcaag gtgcccctca tcaactgtgc caaagcaag attctgctgg ttctgtttca ccccatcaac tcctgtgcca acccttctct ctatgccatc ttaccacaaa actttcgag agatttcttc attctgtga gcaagtgtg ctgctatgaa atgcaagccc aaatttatag gacagaaact tcataccatg tccacaacac ccataccagg aatggccact gctcttcagc tccagagtc accagtgggt ccacttatc attgtccct ctaagtcatt tagcccaaaa ctaaaacaca atgtgaaaaat gtatctgagt attgaaatg atctcagttc ttgcctttga aggtatgtc acaaggagct gacagtgtt ctacacatt catctatctt aatattctcg gcatacctt aaggtaaatt ggtcaggaaac tattaattcc atgtgatac ttaggaagct gaattattag taacaacaat aataattaaa gaatgcaata ctgtaaaaaa gcggccgca att </p>	Homo sapiens
122	1681	Follicle Stimulating Hormone Receptor	NP_000136.1	<p> MALLVSLLA FLSLGGGHH RICHCSNRF LCQESKVTET PSDLPNAIE LRFVLTCLR P IQKGFSGFG DLEKIEISQN DVLEVIADV FSNLPKLHEI RIEKANLLY ITPEAFQNL P NLQYLLISNT GIKHLPDVHK IHSLLQVLLD IQDNINIHTI ERNSFVGLSF ESVILWLKN GIQEIHNCAF NGTQLDAVNL SDNNLEELP NDVFHGASGP VILDISRTI HSLPSYGLN LKKLRARSTY NLKKLPTEK LVALMEASLT YPSHCCAFAN WRRQISELHP ICNKSILRQE </p>	

123	1726	G Protein- Coupled Receptor RDC1	U67784	<p>VDYMTQARGQ RSSLAEDNES SYSRGFDMTY TEFYDLCNE VDVTCSPKP DAFNPCEIDIM GYNILRLWIW FISILAITGN IIVLVILTTS QYKLTVPFRL MCNLAFAADLC IGIYLLLIAS VDIHTKSQYH NYAIDWQTGA GCDAAAGFFTV FASELSVYTL TAITLERWHT ITHAMQLDCK VOLRHAASVM VMGWIFAFAA ALFPIFGISS YMKVSLCLPM DIDSPLSQLY VMSLLVLNLV AFVVICGCIY HIYLTVRNPN IVSSSDTRI AKRMALIFT DFLCMAPISF FAISASLKVP LITVSKAKIL LVLFHPINSC ANPFLYAIFT KNFRDRFILL LSKCGCYEMQ AQIYRTETSS TVHNTHPRNG HCSSAPRVTS GSTYILVPLS HLAQN</p> <p>gccaactccg tgggtggtcgt ggtgaatcag caggccaaga ccacaggcta tgacacgcac A tgctacatct tgaacctggc cattgccgac ctgtgggttg tccctacat cccagctctgg gtggtcagtc tegtgcagca caaccagtgg cccatgggag agctcacgtg caaagtcaca cacctcatct tctccatcaa cctcttcagc agcatcttct tccctcacgtg catgagcgtg gaccgtacc tctccatcac ctacttcacc aacaccccca gcagcaggaa gaagatggta cgccgtgtcg tctgcatect ggtgtggctg ctggccttct gcgtgtctct gcttgacacc tactacctga agaccgtcac gtctgcgtcc aacaatgaga cctactgccg gtccttctac cccagcaca gcatcaagga gtggctgac ggcatggagc tggctccgtg tgctttgggc tttgccgttc cttctccat tatcgtgtgc ttctactcc tgggtggcag agccatctcg gcgtccagtg accagagaga gcacagcagc cggaagatca tcttctccta cgtgggtggtc ttccttgtct gctggttgcc ctaccacgtg gcggtgctgc tggacatctt ctccatccctg cactacatcc ctttcacctg ccggctggag cagccctct tccagccctt gcattgtcaca cagtgccctgt cgtgtgtgca ctgctgcgtc aaccccttc tctacagctt catcaatcgc aactacaggt acgagctgat gaaggccttc atcttcaagt actcggccaa aacagggtctc accaagctca tcgatgcctc cagagtctca gagacggagt actctgcctt ggagcagagc accaaagat ctgcccctgga gaggtctctg gacgggttta cttgtttttg aacagggtga tgggccctat ggttttctag agcaaaagca agtagcttctg ggtcttgatg cttgagtaga gtgaagagggt gagcacgtgc cccctgcac cattytctct tctctttgat gacgcagctg tcatttggct gtgcgtgctg acagttttgc aacaggcaga gctgtgtcgc acagcagtcg tgtgcgtcag agccagctga ggacaggctt gcctggactt ctgtaagata ggattttctg tgtttcctga atttttata tgggtatttg tatttaaat ttaagacttt attttctcac tattgtgtga cttataaat gtatttgaat gttataataa ttttaaatat tgtttgggag gcatagtgtt gacataatatt cagagtgttg tagtttttaag gttagcgtga ctttcagttt tgactaagga tgacactaat tgttagctgt tttgaaatta tatatatata aatatataaa tatatgccag tcttggtcga aatgttttat ttaccatagt tttatatctg tgtgggtgtt tgtaccggca cgggatatgg aacgaaaaact gctttgtaat gcagtttgtg acattaatag tattgtaaaag ttacatttta aaataaaca aaaaactttc tggactgcaa atctgcacac acaaacgaaca gttgcatttc agagagttct ctcaatttgt aagttatttt tttttaataa agatttttgt ttcctaaaaa aaaaaaaaaa aaaaa</p> <p>MDLHFDYAE PGNFSDISWP CNSSDCIIVD TVMCPNMPNK SVLLYTLSTF YIFIFVIGMI P ANSVVVWNI QAKTTGVDTH CYILNLAIAD LMVLTIPVW VVSLVQHNQW PMGELTCRVT HLIFSINLFS GIFFLTMSV DRYLSITYFT NTPSSRRKMV RRVCILVWL LAFCVSLPDT YYLKTVTSAS NNETYCRSFY PEHSIKEWLI GMELSVSVLG FAVPFSIIAV FYFLIARAI ASSDQEKHSS RKIIFSYYV FLVCWLPYHV AVLLDIFSIL HYIPFTRLE HALFTALHVT</p>	Homo sapiens
124	1726	G Protein- Coupled Receptor RDC1	AAA62370.1	<p>MDLHFDYAE PGNFSDISWP CNSSDCIIVD TVMCPNMPNK SVLLYTLSTF YIFIFVIGMI P ANSVVVWNI QAKTTGVDTH CYILNLAIAD LMVLTIPVW VVSLVQHNQW PMGELTCRVT HLIFSINLFS GIFFLTMSV DRYLSITYFT NTPSSRRKMV RRVCILVWL LAFCVSLPDT YYLKTVTSAS NNETYCRSFY PEHSIKEWLI GMELSVSVLG FAVPFSIIAV FYFLIARAI ASSDQEKHSS RKIIFSYYV FLVCWLPYHV AVLLDIFSIL HYIPFTRLE HALFTALHVT</p>	Homo sapiens

125	1762	Galanin Receptor GalR1	NM_001480	QCLSLVHCCV NPVLYSFNR NYRYELMKAF IFKYSAKTGL TKLIDASRVS ETEYSALEQN AK	Homo sapiens
				atcccgctag aatccgtcca gtctctgctc gcgcaccgtg acttctaagg ggcgcggatt A tcagccgagc tgttttgcgc tctcagttgc agcagagaag cccctggcac cgcactctat ccaccaccag gaagctccc aaagagctc tcgcccctgt gacgactcgg aatccctgga aaagccggga ggaagtccga ggcgccagcc cactggagct gtcgccttgg gcgcgcggga tgcgcgggga gctctctctg caggagccgc acagtgcact gctgcgcgt ggcagctgg gggaagccgc gcgggaagga gcggctccga gcaacagttg cagcacgcag ccgtccggg agccagggaa aaccgcggc gaagatctgg agcgttaagg cggagagaag ggtctttcca cctgcggcgc tgcagccggc ggatccctct tcccagctc cgtggtcgcg cagcgggcgg aggcgcggc gcaggggacc ccagtgtctc cgagatcacc gtcccttccc gagaaggctc agctccggc tcccgaaacc accctctctc agaaggtgc gcgcgaaga cggtgccacc aggcacggc accggatccc cgtcccgctc ggtcgcgc cgggggaag ctgagactcc taaacctgca ctctcgtgc ttgctgcgg gacctggc caccgccgc cctgctatc ccgcctccc tcccgcgcg ccccgcgct gcgcgggaca ccccgcgcg ccatggagct ggcggtcgg aacctcagc agggcaacgc gagctggcg gagcccccg ccccgagcc cggccgctg ttccgcatc gctggagaa ctctcgcag ctggtggtgt tcggcctgat cttcgcgtg ggcgtgctg gcaacagct agtgatcacc gtgctggcg gcagcaagcc gggaagccg cggagacca ccaacctgtt cactctcacc ctgagcatc cgcacctggc ctacctgtc ttctgcatc cctccaggc caccgtgtac gcgtgccc cctgggtgct ggcgccctc atctgcaagt tcattccacta ctcttccac gtgtccatc tggtagacat cttcacctg gccgcgatg ccgtggaccg ctacgtggcc ctgctgcact cgcggcgctc ctctccctc aggtgtccc gcaacgcgt gctggcgct ggctgcact gggcgctgc cattgccatg gctcgcgcg tggcctacca ccagggcctc tccaccgc gcgccagaa ccagacctc tgcgggagc agtggccga cctcgccc acgaaggcct acgtggtgtg cacctctgtc ttccggtacc tgcgtccgt cctgctcctc tgcttctgt atgccaaagt ccttaactac ttgcataaaa agttgaagaa catgtcgaag agtctgaag catccaagaa aaagactgca cagacagttc tgggtgtggt tgggtgtgtt ggaatctcct ggtgcccga ccacatcac catctctggg ctgagtttgg agtttccc agtacgcgg cttccttct cttcagaac accgccact gcctggcgta cagcaattcc tccgtgaatc ctatcattt tgcatctc tctgaaatt tcaggaaagc ctataaaca gtgttcaagt gtcacattcg caagattca cactgagtg atactaaga aataaaagt cgaatagaca cccaccatc aaccattgt actcatgtgt gataaaagt agagtatcct tatggttgag ttccatata agtggaccag acacagaac aaacagaatg agctagtaag cgaatgctga acttggtatc ttaacaagaa ttcaagtctg tttaattaaa tcccagctg gtaaaaaagt actttgatcc atttaggaaa ttcctaggc tagtgagaat tattttcaa ttttatttta gtctaaatt atgtttcaga acaaaaagc aatgctgtac agttttattc ctcttcagac atgaaggga acatatatat tccatatata tgttcaactc ttcatagatt gtgaactggc ccatcaatat ggtcagggaat atttgcagc tacattttta agccaattta tttagaaaaa aaatttgagc tttaattctt taattttaag agaagtaata ttgtgaacta tgtattttta aatatgatca tggacacaca atgatgaatt ttttgcccat ttacatagac atatctatta agtggaaaga	

126	1762	Galanin Receptor GalR1	NP_001471.1	aggctttctg aagctctgtt gcacaggtgg cattgtcttc caattgtagc tagcgacacg agctttgga gcctgtcatt atgagataca gtcggtttac ctgaggtc aattcagtg tgtactggg acctgggatg cagtagtagg cactgttgat tcaaatattat cctgtgaaac tggtttata gaggtaacaa acacagatca gagaccactg tcttaacagt ggaagatgca aataagtttt tgagataaaa actggatttt gaaattttac attagtactt gacaaaagt ttcattttgc cttgaaatgga accactaaa agagagatg aaaaaaatc agcaggttg atgtagataa taattttctat gggccaaaag actagacaga attcagtaag tcacatgaag taatgtcat gcctgtacat aaagcatatt tcatgtttga tttagatgac attcaaaaa aatcatggga ctgaatatac ctgggttatc ctatcttga caaatgcatg ctttttcatt aaatttgtaa tgatgtttaa tgaacattc caccacacat tatttctct aaaaatgta atttggggtt aaacacatca ccatttgaat ttcaaatga gttttcatga caattttata ttgatgtgtg ttacacatga gaaaatggca tgaataattt aaattgtctt gtatcg SKPKPRSTT NLFILNSIA DLAYLFCIP FOATVYALPT WVLGAFICKE IHYFFTVSML VSIFTLAAMS VDRYVAIVHS RRSLSLRVS RALLGVGCIW ALSIAMASPV AYHQGLFHRP ASNQTFCEWQ WPDPRHKAY VVCTFVGYL LPHHIIHLWA EFGVFPLTPA SFLFRITAHK LAYNSSSVNP SKKTAQTVL VVVVFGISW LPHHIIHLWA EFGVFPLTPA SFLFRITAHK LAYNSSSVNP IIYAFISENF RKAYKQVFKC HIRKDSHLSL TKENKSRIDT PPSTNCTHV	Homo sapiens
127	1808	Gastric Inhibitory Polypeptide Receptor	NM_000164	ggcaggggtg gcaggggtg caggagcaag tgaccagag caggactggg gacaggcctg A atcgccctg caccgaacag acccttgcg ccctcaca gactacatc tccgactcctg cagtgctgc tgcggctctc actgtgcgg ctgctgcctc agaggcgga gacaggctct aaggggcaga cgcgggggga cgtgtaccag cgctgggga ggtaccgag ggaagtccag gagaccttg cagcggcga accgcttca ggcctgcct gtaacgggtc cttcgatatg tacgtctgct gggactatgc tgcacccaat gccactgcc gtgcgtcctg cccctggtac ctgccctggc accacatgt ggtgcaggt ttcgtctctc gccagtgtg cagtgtggc caatggggac ttggagaga ccatacaca tgtgagaacc cagagaagaa tgaggccttt ctggacaaa ggtctatctt ggagcgttg caggtcatgt aactgtcg ctactccctg tctctcgcca cactgtgtgt agcctgtctc atcttgagt tgttcaggog gctacattgc actagaaact atatccat caactgttc acgtctttca tgcgtcgagc tgcggccatt ctcagccgag accgtctgct accctgacct ggccctacc ttggggacca ggccttgcg ctgtggaacc aggcctcgc tgcctgcgc acggccca tgcgtacca gtaactcgtg ggtgccaact acactggct gctgtggag ggcgtctacc tgcacagtct cctggtgctc gtggaggct ccgaggagg ccacttcgc tactacctg tccctggctg gggggcccc gcgttttcg tcatccctg ggtgategc aggtacctt acgagaacac gcagtgtg gagcgaacg aagtcaggc catttggtg attatacga ccccatctc catgaccatc ttgattaatt tctcatctt tatccgcat ctggcattc tctgtccaa gctgaggaca cggcaaatg cctgcccga ttaccggctg aggtggctc gctccacgt gacgtgtg ccccctgtg gtgtccaga ggtgtgttt gctcccgta cagaggaca gcccgggg gcctgcgtc tcgccaagct cggctttgag atcttctca gctcctcca gggcttctg gtcagcgtcc tctactgctt catcaacaag gagggtcagt cggagatccg ccgtggctg caccactgcc ccctgcgcg cagcctggc gagagcaac gccagctccc gagcgcgc	Homo sapiens

128	1808	Gastric Inhibitory Polypeptide Receptor	NP_000155.1	<p>ttccggggccc tgcctcccg ctcggggccg ggcgagggtcc ccaccagccg cggcttggtcc</p> <p>tccgggaccc tcccaggcc tgggaatgag gccagccggg agttggaag ttactgtctag</p> <p>ggggcgggat cccgtgtct gtccagttag catggattta ttgagtcca actgcgtgcc</p> <p>aggccagta cggaggacgc tggggaaatg gtgaaggaaa cagaaaaaag gtccctgccc</p> <p>ttctggagat gacaaactgag tggggaaaac agaccgtgaa cacaaaacat caagtccac</p> <p>acacgctatg gaatggttat gaagggaagc gagaaggagg ctagggtgg tctgggaggc</p> <p>gtctccaagg agtgacatc taagccatcc ccgaagagg tgaagagat cactttgggg</p> <p>agagctggag aacaggattc taggcggaag cgatagcata ggcaaggcc cttgggcagg</p> <p>aagcgctca gccttggctg gagtagaatt aagtcagagc caacaggtg gggagagaca</p> <p>gagaaagtgg caggggcacc caagttggga ttctattca ggtgcattgg agattcttag</p> <p>gagtgctct tgggggtaat attttattt ttaaaaaatg aggat</p>	Homo sapiens
129	1813	Gastrin- Releasing Peptide Receptor	NM_005314	<p>gagtgctct tgggggtaat attttattt ttaaaaaatg aggat</p> <p>MTTSPILQLL LRLSLGLL QRAETGSKGQ TAGELYQWE RYRRECQETL AAAPPSGLA P</p> <p>CNGSFDMYVC WDYAAPNATA RASCPWYLPW HHVAAGFVL RQCGSDQWG LMRDHTQCEN</p> <p>PEKNEAFDQ RLILERLQVM YTVGYSLSLA TLLALLLIS LFRRLHCTRN YIHINLFTSF</p> <p>MLRAAAILSR DRLLPRPGPY LGDQALALWN QALAACRTAQ IVTQYCVGAN YTWLLVEGVY</p> <p>LHSLVLVGG SEEGHFRYIL LLGWGAPALF VIPWVIVRYL YENTQCWERN EVKAIWIIIR</p> <p>TPILMTILIN FLIFIRILGI LLSKLRTRQM RCRDYRLRLA RSTLTLPVLL GVHEVVFAPV</p> <p>TEEQARGALR FAKLGFEIFL SSFQGFVSV LYCFINKEVQ SEIRRGWHHC RLRRSLGEEQ</p> <p>RQLPERAFRA LPSGSGPGEV PTERGLSSGT LPGPNGEASR ELESYC</p> <p>ccagattcta aatatcagga aagacgtctg gggaaaatag caggccaaa gttcttagta A</p> <p>aactgcagcc agggagactc agactagaat ggaggtagaa agaactgatg cagagtgggt</p> <p>ttaattctaa gctttttgtt gctaagttt agtcttagt aacttattga atttagagt</p> <p>gtattgcact ggtcatgta aagccagagc agcaccagt tcaaaatagt gacagagagt</p> <p>tttgaatacc atagtttagta tatatgtact cagagtattt ttattaaaga aggcaagag</p> <p>cccgccatag atcttatctt catcttcat cggttgcaaa atcaaatagt aagaaatagc</p> <p>atctaaggga acttttaggt gggaaaaaa atctagagat ggctctaaat gactgtttcc</p> <p>ttctgaactt ggaggtggac catttcatgc actgcaacat ctccagtcac agtgcggatc</p> <p>tcccgtgaa cgatgactgg tcccacccgg ggatectcta tgtcatccct gcagtttatg</p> <p>gggttatcat tctgataggc ctcatggca acatcacttt gatcaagatc ttctgtacag</p> <p>tcaagtcctat gcgaacgtt ccaaacctgt tcatttccag tctggcttg ggagacctgc</p> <p>tcctccta at aagtggtgtt ccagtgatg ccagcaggtta cctggctgac agatggctat</p> <p>ttggcaggat tggctgcaaa ctgatccct ttatacagct tacctctgtt ggggtgtctg</p> <p>tcttcacact cagggcgctc tcggcagaca gatacaaaagc cattgtccgg ccaatggata</p> <p>tccaggcctc ccattgccctg atgaagatc gctctaaagc cgcctttatc tggatcatct</p> <p>ccatgtgtt gccattcca gagccgtgt ttctgtacct ccctcccttc catgaggaaa</p> <p>gcaccaacca gaccttcatt agctgtgcc cataccaca ctctaattag ctccacccca</p> <p>aaatccattc tatggcttcc ttctgtgtct tctacgtcat cccactgtcg atcatctctg</p> <p>tttactacta ctctattgtt aaaaatctga tccagagtgc ttacaatctt cccgtggaag</p> <p>ggaatataca tgtcaagaag cagattgaat cccggaagcg acttgccaaag acagtgtgg</p> <p>tgtttgggg cctgttcgcc ttctgtggc tcccaatca tgtcatctac ctgtaccgt</p> <p>cctaccata ctctgagggtg gacacctcca tgtccactt tgtcaccagc atctgtgccc</p>	Homo sapiens

130	1813	Gastrin- Releasing Peptide Receptor	NP_005305.1	gctctctggc cttcaccaac tctgctgta acccctttgc cctctacctg ctgagcaaga gtttcaggaa acagttcaac actcagctgc tctgttgcca gcttgacctg atcatccggt ctcacagcac tggaaagagt acaacctgca tgacctcct caagagtacc aacctctcgg tggccacctt tagcctcatc aatggaaaca tctgtcaca gcggtatgtc tagattgacc cttgattttg cccctgagg gacggttttg cttatggg agacaggaa ccttgcatcc attgttgtgt ctgtgccctc caaagagcct ctgaaatgct cctgagtgtt gtaggtgggg gtggggaggc ccaaatgatg gatcacatt atatttgaa agaagc MALNDGFLN LEVDHFMHCN ISSHADLPV NDDWSHPGIL YVIPAVGYVI ILIGLIGNIT P LIKIFCTVKS MRNVNLFIS SLALGDLILL ITCAPVDASR YLADRWLFR IGCKLIPFIQ LTSVGVSVFT LTALSADRYK AIVRPMDIQA SHALMKICLK AAFIWIISML LAIPEAVFSD LHPFHEESTN QTIFSCAPYP HSNELHPKIH SMASFLVFYV IPLSIISVY YFIAKNLIQS AYNLPVEGNI HVKKQIESRK RLAKTVLVFV GLFAFCWLPN HVIYLYRSYH YSEVDTSM LH FVTSICARLL AFTNSCVNPF ALYLLSKSFR KQFNTQLLCC QPGLIIRSHS TGRSTTCMTS LKSTNPSVAT FSLINGNICH ERYV	Homo sapiens
131	1814	Cholecystoki nin B Receptor	NM_000731	atggagctgc tcaagctgaa ccggagcgtg cagggaaccg gaccgggccc gggggcttcc A ctgtgcgccc cggggcgccc tctctcaac agcagcagtg tgggcaacct cagctgcgag ccccctcgca ttgcggagc cgggacacga gaattggagc tggccattag aatcactctt tacgcagatga tcttctctgat gacggttggg ggaatatgc tcatcatcgt ggtcctggga ctgagccgcc cctgaggac tgtaccaat tgcctctcc accctctgc ccaatctcat gggcacattc ctctctgctgg ctgtggcttg catgcccttc accctctgc ccaatctcat gggcacattc atctttggca ccgtcatctg caaggcggtt tctctacctc tgggggtgtc tgtgagtgtg- tccacgctaa gcctcgtggc catcgcactg gagcgtgata gcgcatctg ccgaccactg caggcaagag tgtggcaagc gcgtcccaac gcggtctgcg tgattgtagc cacgtggctg ctgtccggac tactcatggt gccctacccc gtgtacactg tctgtcaacc agtggggcct cgtgtgctgc agtgcgtgca tgcctggccc agtgcgcggg tccgccagac ctggtccgta ctgtctcttc tgcctctgtt cttcatcccg ggtgtggtta tggccgtggc ctacgggctt atctctcgcg agctctactt agggcttcgc tttgacggcg acagtacag cgacagccaa agcagggtcc gaaaccaagg cgggctgcca ggggctgttc accagaaagg gcgttgccgg cctgagactg gcgcggttgg cgaagacacg gatggctgct acgtgcaact tccacgttcc cggcctgccc tggagctgac ggcgctgacg gctccaggcg cgggatccgg ctcccggccc accagggcca agctgctggc taagaagcgc gtggtgcgaa tgttgcctgt gatcgttgtg cttttttttc tgtgttgtt gccagtttat agtgccaaca cgtggcgcg ctttgatggc cggggtgcac accgagcaact ctgggtgtct ctatctctct tcttcaact gctgagctac gcctcgccct gtgtcaaccc cctggtctac tgcctcatgc accgtgctt tgcgaggcc tgcttgga aa ctgtcgctcg ctgctgcccc cggcctcaac gagctgccc cagggtctt cccgatgagg accctcccac tccctccatt gcttcgctgt ccaggcttag ctacaccacc atcagcacac tgggcccctgg ctgaggagta gaggggcccgt gggggttgag gcagggcaaa tgacatgcac tgaccttcc agacatagaa aacacaaacc acaactgaca caggaaacca acacccaaag catggactaa ccccaacgac aggaaaaagt agcttacctg acacaaagg aataagaatg gagcagtaca tgggaaaagg ggcattgcctc tgatatggga ctgagcctgg cccatagaaa catgacactg accttgagga gacacagcgt ccctagcagt gaactatttc	Homo sapiens

132	1814	Cholecystoki nin B Receptor	NP_000722.1	<p> taccacagtggaactctgac aagggtctgac ctgcctctca cacacataga ttaatggcac tgattgtttt agagactatg gagctctggca caggactgac tctgggatgc tctagtttg acctcacagt gaccttccc aatcagcact gaaaatacca tcaggcctaa tctcatacct ctgaccaaca ggctgtttctg cactgaaaag gtcttccatc ctttccagt taaggaccgt ggcctgccc tctctctct tcccaactg tcaagaat aataaattgt ttggcttctc cctgaaaaa aaaaaaaa aaaaaaaa aggaattcc MELLLNRSV QGTGPGGAS LCRPGAPLIN SSSVGNLSCE PRIRAGCTR ELELAIRITL P YAVIFLMSVG GNMLIIWLG LSRLRLVTN AFLLSLAVSD LLLAVACMPF TLLPNLMGTF IFGTICKAV SYLMGVSVV STLSLVAIAL ERYSAICRPL QARVWQTRSH AARVIVATWL LSGLMVPYP VYTVVQVGP RVLCQVHRWP SARVRQTSV LLLLLFFIP GVMAYAYGL ISRELYLGLR FDGSDSDSQ SRVRNQGGLP GAVHQNGRCR PETGAVGEDS DGCYVQLPRS RPALELTALT APGPGSGSRP TQAKLLAKKR VVRMLLVIV LFFLCWLPVY SANTWRAF DG PGAHRALSGA PISFIHLISY ASACVNPLVY CFMHRRFQA CLETCARCCP RPPRARPRAL PDEDPTPSI ASLSRLSYTT ISTLGGP </p>	Homo sapiens
133	1834	Glucagon Receptor	NM_000160	<p> ggatctggca gcgcgcgaa gacgagcggc caccggcgc cgaccggc gcgccagag A gacggcgggg agccaaagccg accccggc agcgcgcgc ggccctgag gctcaaggg gcagcttcag gggagagcac cccactggcc aggacgccc agctctgct gctctgccac tcagctgccc tcggaggagc gtacacacac accaggactg cattgcccc gtgtgcagcc cctgccagat gtggaggca gctagctgcc cagaggcatg cccccctgc agccacagc acctctgctg ctgttctgctg tctgtctggc ctgccagcca caggtccctc cgcctcaggt gatggacttc ctgtttgaga agtggaaact ctacgtgac caggtccacc acaacctgag cctgctgccc cctccacgg agctgggtgtg caacgaacc ttcgacaagt attcctgctg gccggacacc cccgccaata ccacggccaa catctctgc cctggtacc tgccttggca ccacaaagt caacacgct tctgtttcaa gagatgcggg cccgacggtc agtgggtgcg tggaccccg gggcagcctt ggctgtatgc ctcccagtc cagatggatg gcgaggagat tgaggtccag aaggaggtgg ccaagatga cagcagcttc caggtgatgt acacagtggg ctacagcctg tccctggggg cctgtctct cgccttggcc atcctggggg gcctcagcaa gtcgcactgc accgcaatg ccattccacg gaatctgtt gcgtccttcg tgcgaaagc cagctccgtg ctggtcattg atgggctgct caggaccgcg tacagccaga aaattggcga cgacctcagt gtcagcact ggctcagtga tggagcgtg gctggctgc gtgtggccgc gggtttcatg caatatggca tctgtggccaa ctactgtgg ctgctgtgg agggcctgta cctgcacaa cctgctggcc tggccacct ccccgagagg agcttctca gcctctacct gggcatggc tggggtgccc ccattgctgt cgtcgtcccc tgggcagtg tcaagtgtct gttcgagaac gtccagtgtt ggaccagcaa tgacaatg ggcttctgtt ggatcctgcg gttcccgctc ttcctggcca tctgtatcaa tcttctcatc ttcgtccga tctgttcagct gctcgtggcc aagctgcggg cagggcagat gcaccacaca gactacaaat tccggctggc caagtccacg ctgacctca tccctctgct gggcgtccac gaagtgtct tgcctctgt gacggacgag cagcccgagg gcacctgctg ctcggccaaag ctcttcttgc acctctctc cagctccttc caggccctgc tgggtgctgt cctctactgc ttcctcaaca aggaggtgca gtcggagctg cggcgcgctt ggcaccgctg gccttgggc aaagtgtctat gggaggagc gaacaccagc aaccacagg cctcatcttc gcccgccac ggccctcca gcaaggagct </p>	Homo sapiens

Homo
sapiens

134 1834 Glucagon Receptor NP_000151.1 P

gcagtttggg aggggtggtg gcagccagga ttcatctgcg gagacccctc tggctggtgg
 cctccctaga ttggtgaga gcccttctg aacctgctg ggacccagc taggctgga
 ctctggcacc cagaggcgct gctggacaac ccagaactgg acgccagct gaggtggg
 ggggggagc caacagcagc ccccaactac ccccaacccc cagtggtgct gtctgcgaga
 ttgggctcc tctccctgca cctgcttgt cctgtgagca gaggtgagca gagagtgcca
 gggcgggagt ggggctgctg ccgtgaactg cgtgcagtg tcccaactga tgcggcacg
 tcccatgtgc atggaatgt cctccaacaa taaagagctc aagtggtcac cgtg

TFDKYSCWPD TPANTANIS CPWLPWHHK VQHRFVKRC GPDGQWVRGP RQPWDRASQ
 CQMDGEEIEV QKEVAKMYSS FQVMYTVGYS LSLGALLLAL AILGLSKLH CTRNAIHANL
 FASFVLKASS VLVIDGLLRT RYSQKIGDDL SVSTWLSGDA VAGCRVAAVF MQYGIVANYC
 WLLVEGLYLH NLLGLATLPE RSFFSLYIGI GWGAPMLFW PWAVVKCLFE NVQCWTSNDN
 MGFWWILRFP VFLAILINFF IFVRIVQLLV AKLRARQMHV TDYKFRILAKS TLTLIPLGV
 HEVVFATVTD EHAQGTLRSA KLFFDLFLSS FQGLLVAVLY CFLNKEVQSE LRRWHRWRL
 GKVLWEERNL SNHRASSSPG HGPPSKELQF GRGGGSDSS AETPLAGGLP RLAESEPF

Homo
sapiens

135 1925 Gonadotropin Releasing Hormone Receptor NM_000406 A

ttggttgcgt gtccacttac aaacactttt catatttgta tgtctttcca atggttatec
 tgttttgctc atttcaggca tatggccctg atcagattaa ctgacatgat gtatatgcaa
 agccttttga gttcttcaga aaaataaatt atcttttca agactgattg cttataagga
 acttattata gctaataatag taggcacaat tttttttgta attctcctag atgagtcaga
 acttagtttt gatgtaggta aaaattttat ggtcacaaat ctgaggtgtg agaaaatctc
 tttcttgat actctatata aatagaggat ataaaatttt caagtcctgga agtagtgaga
 gaagctggta attctggaca tatagtga gtcacaaagg agctcaggta caggactggt
 ctaagctgct caagattcag gagacagcca gtacacagag aagctgagga aataatcacg
 atatatctaa aacacttctc taaccttctg tggtaacaa gctccttaag gggctggatg
 atgttgtgtt cactttttat caccagcaaa ggctaagata atgtatatag taaatattta
 gtaaccattt attaaataaa taaatattta agacagata acaagata ataaatgaac
 caataagaat gcaccatcta agtcaaaata gccactttta tcttaacat tgtacctgct
 ttggctgctg cagaagcaaa ctgtgttgga ttgacacaaat caagctggtg atttaataaa
 ttccaatgta agtcttacc a gttattgga ataactatcc agcactcacc atgaaagtta
 aagaagcaac acagaaaaag ttcctaagt gtcaccaattt gaaatgata gataacctat
 aaaagaacat attcatatta tactaataa aacacataa atgcactta cagcagttac
 acagtattct cttcaataac tagtttctt atgcattaat gtgtaataac agcaactaca
 atatttagat aattataaaa accaaggcaa taatttaaaa actgattaac cgttttactc
 taacttaagc atggattgga tcagtaagat tgattataa attgaaatgc agtcagttgg
 attgattcta atttaagtt ttaattgtt tagaataaa ttttaagtga tatattgttc
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 gtttaattct taagacaatg gattttaatt ggactgtgtg ttttcatttt tcttcattat
 cattatacat ctgtatgttg gacagaacac taacactaaa tagtttttag aaagtgtttt
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 tatccttctt cacttaggaa gagtgtgtg aaagccagac catctgctga ggtgctacag
 ttacatgtgg ccctcagaat gcgtttggcc tgctctgttt tagcactctg ttggattacc

136	1925	Gonadotropin -Releasing Hormone Receptor	NP_000397.1	<p> aatacaaaa acaagttaac cttgatctt tcacattaag tatctcagg acaaaatttg acatacgtct aaacctgtga cgtttccatc taaagaaggc agaaataaaa catggacttt agattcgggtt acaataaaat atcagatgca ccagagacac aaggcttgaa gctctgtcct gggaaaaatat ggcaaacagt gcctctcctg aacagaatca aaatcactgt tcagccatca acaacagcat ccactgatg cagggaacc tcccactgt gacttgctt ggaagaatcc gagtacgggt tactttcttc cttttcttc ctttgagac ctttaattgt tctttcttgt tgaaacttca gaagtggaca cagaagaaag agaaaggga aaagctctca agaataaagc tgctcttaaa acatctgacc ttagccaacc tgttgagac tctgattgtc atgccactgg atgggatgtg gaacattaca gtccaatggt atgctggaga gttactctgc aaagtctca gttatctaaa gcttttcttc atgtatgccc cagccttcat gatggtgtg atcagcctgg accgctccct ggctatcacg aggcccttag ctttgaaaa ccaacagaaa gtcggacagt ccatggttgg cctggcctgg atcctcagta gtgtcttgc aggaccacag ttatacatct tcaggatgat tcatctagca gacagctctg gacagacaaa agtttctct caatgtgtaa cacactgcag tttttcaaa tgggtgcctc aagcatttta taactttttc accttcagct gcctcttcat catcctctt ttcactatgc tgacttgcaa tgcaaaaatc atcttcaccc tgacacgggt ccttcacag gaccccccag aactacaact gaatcagtc aagaacaata taccagagc acggtgaag actctaaaaa tgacggttgc atttgccact tcatttactg tctgctggac tccctactat gtcctaggaa tttggtattg gttgatcct gaaatgttaa acaggtgttc agaccagta aatcacctct tctttctct tgcttttta aacctatgct ttgatccact tatctatgga tattttctc tgtga </p>	Homo sapiens
137	1945	Opsin, green- sensitive	NM_000513	<p> MANSASPEQN QNHCSAINNS IPIMQNLPT LTLSGKIRVT VTFFLFLLSA TFNASFLKL P QKWTQKKEKG KKLSRMKLL KHLTLANLE TLIVMLDGM WNITVQWYAG ELLCKVLSYL KLFSMYAPAF MMVVISLDRS LAITRPLALK SNSKVQSMV GLAWILSSVF AGPQLYIFRM IHLADSSGQT KVFSQCVTHC SFSQWHQAF YNFFTFCLF IIPLFIMLIC NAKIIFTLTR VLHQDPHELQ LNQSKNIIPR ARLKTLKMTV AFATSTVCW TPYYVLGIWY WFDPEMLNRL SDPVNHFFFL FAFLNPCFDP LIYGYFSL atggcccagc agtggagcct ccaaaggctc gcaggccgcc atccgcagga cagctatgag A gacagcacc agtccagcat cttcacctac accaacagca actccaccag aggcccttc gaaggccga attaccacat cgctcccaga tgggtgtacc actccaccag tgtctggatg atctttgttg tcattgcac cgttttcaca aatgggcttg tgctggcggc caccatgaag ttcaagaagc tgcgccacc gctgaactgg atcctggtga acctggcggg cgctgacctg gcagagaccg tcatgccag cactatcac gttgtgaacc aggtctatgg ctacttcgtg ctgggccacc ctatgtgtgt cctggaggcc tacaccgtct cctgtgtgg gatcacaggt ctctggtctc tggccatcat tctctggag agatggatgg tggctctgaa gccctttggc aatgtgagat ttgatgccaa gctggccatc gtgggcatg gttctctctg gatctgggct gctgtgtgga cagccccgcc catctttggt tggagcaggt actggcccc cgccctgaag acttcatgag gccagacgt gttcagcggc agctcgtacc ccggggtgca gctcttacctg attgtcctca tggtaacctg ctgcatacc ccactcagca tcatcgtgct ctgctacctc caagtgtggc tggccatccg agcgggtgga aagcagcaga aagagtctga atccaccag aaggcagaga aggaagtgc gcgcatggtg tgggtgatgg tcttgccatt ctgcttctgc tggggaccat acgcttctt cgcattgctt gctgctgcca accctggcta ccccttccac </p>	Homo sapiens

138	1945	Opsin, green- sensitive	NP_000504.1	MAQWLSLQRL AGRHPQDSYE IFVVIASVFT NGLVLAATMK LGHPMCVLEG YTVSLCGITG AWVTAPPIFG WSRYPHGLK QVWLAIKRAVA KQKSESTQ PLMAALPAFF AKSATIYNPV VSPA	DSTQSSIFTY TNSNSTRGPF ILVNLAVALDL AETVIASTIS RMVMVCKPFG NVREDAKLAI SSYPGVQSYM IVLMTCCIT VMMVLAFCFC WGPYAFFACF NCILQLFGKK VDDGSELSSA	EGPNYHIAPR WYVHLTSVMM P VNMQVYGYFV VGLAFSWIWA PLSIIVLCYL AAANPGYPFH SKTEVSSVSS	Homo sapiens
139	1951	Growth Hormone Secretagogue Receptor	NM_004122	atgtggaacg cgaagccacg tgggatgctt ccccgccgaa ccgctgctgg cggcgctcac aacctgctca ccatgtggt tacctgtcca gcatggcctt gttcgctctt ggcagtaccc ttcgtcagtg agagctgcac cgctacttcg ccatctgctt aagctggtea tcttcgtcat ctagtcgggg tggagcacga accgagtttg cgggtcgctc ttcttctctc ctgtctcttg cggaggaggc gggcgcatgc accgtgaaaa tgcgtgggtg ctctccctgt gctctcagcg ctctctctga	cgaagagccg gggttcaacc cgactcgctg ggcgaacgagc agccacctgc ttggcactct ggtgtcgcgc ttcgcgcgagc ctccgatctc tctcatcttc gacctggaac ttgcggcacc gtgctcacca tcacagcgct cccaaggtgg tggtaacca ctgggccgtg gcttcttgca gaccttggg acaccaacga acggctatgg cagcatcttc tctcacgctc tcatcgccag tgctcgtgggt cctctcgctca gtctcagcgc ggcgtcagcg ttctctctgc ggggtctatc	tcacactggc cgacctggac A tgctgcagct ctcccccgcg tcgtgtgtggg tatcgctggc tgcgcaccac caccacacct tctgcatgcc cctggacctc tctctgcaa actcttccaa tgcgtcagc gagctcgag tggtaacca gggcggggtg gcgcggggcc catctctgtg acaccaacga gtgccgcccc tgcgtgtgtc cagcatcttc tcatcgccag gaagctgtgg gggaccagaa ccacaagcaa gggtctctgc ggggtctatc	Homo sapiens
140	1951	Growth Hormone Secretagogue Receptor	NP_004113.1	MWNATPSEEP GFNLTLADLD NLLTMLVVSFR FRELRTTNL FVSECTYAT VLTITALSVE LVGVEHNGT DPWDTNECRP RRRGDAVVG ASLRDQNHKQ	WDASPGNDSL YLSSMAFSDL RYFAICFPLR TEFAVRSGLL TVKMLGGSQR	VALFVVGIAG P FGDLLCKLFQ AFCSAGPIFV FFLPVFCITV LYSLIGRKLW LSLCLLPSL	Homo sapiens
141	1954	Growth Hormone- Releasing Hormone Receptor	NM_000823	agcagccaag gcttactgag cggatgtggg gggcccaagt atgcacccag aatgtgactt gcagcagagg agatgcccaa tgctggccaa cggcaggtc cacttcagct cagagtcagg ccctttccac ctacacctgt tcttacttct ccacagtga ctcttcgtgg ccataccat gtccacaccc agctgttcac	gctggtggag ggagccactg cttctcgctg ttgagccctg catcacccag ctgagagagg caccacctg ggtcgccctg tggcgagtgg gtccacctcc ggctgtgaaa cgggattgta ggcctgacct gtcctctgg gattatctac accgtgggcc cctggtgtgt ctcaggaggc cacttttctc ctcaaggcgg	catggaccgc A attgggccac ctgtctacaa tgggtctgtg ttcttctct ctggtctgag tgagctggc atagcatctc tattgtagcc ccggaactac gactgtgtgt cctgaaggat	Homo sapiens

142	1954	Growth Hormone- Releasing Hormone Receptor	NP_000814.1	ggtgcccctt tccacagcga cgacactgac cactgcagct tctccactgt tctatgcaag gtctctgtgg ccgcctccca ttctgcacc atgaccaact tcagctggct gttggcagaa gccgtctacc tgaactgcct cctggcctcc acctcccaca gctcaaggag agccttcttg tggctgggtc tcgctggctg ggggctgccc gtgctcttca ctggcacgtg ggtgagctgc aaactggcct tcgaggacat cgcgtgctgg gacctgacg acacctccc ctactgggtg atcatcaaa ggcctattgt cctctgggtc ggggtgaact ttggctttt tctcaatatt atccgcatcc tggtaggaa actggagcca gctcaggga cctccatat ccagtctcag tattggcgtc tctccagtc gacacttttc ctgatccac tcttggaaat tcaactacatc atcttcaact tctgccaaga caatgctggc ctgggcatcc gccctcccct ggagctggga ctgggttctt tccagggctt cattgttggc atctctact gcttctcaa ccaagaggtg aggactgaga tctcaccgaa gtggcatggc catgacctg agcttctgcc agcctggagg accctgtcta agtgaccac gccctccgc tcggcggaat aggtgctgac atctatgtgc taggtgcct catcacgcca ctggagtcca cacttgatt tgggcagcta ccacgggtct gccatgctct ggaggagcaa gggggccaca tcccacccc agctgttacc cagccggggg caggtgcagc ccttctccc tgtctctgca tctgactctc ttttgaggtc cctgtatgtc tacctctgac ttctgtgttc cctctgtgtc tgcctctatc cattctctt actggggcct ggggtcttag cccaaggctc agaggagcca ataaacctgt aatgaaaaa aaaaaa MDRRMGARV FCVLSPLPTV LGHMHPCDF ITQLREDESA CLOAAEENPN TTLGCPATWD P GLLCWPTAGS GEWTLPDPCD FFSHFSSSG AVKRDCRTIG WSEFPFPYPV ACPVPLELLA EESYFSTVK IYTVGHSIS IVALFVAITI LVALLRHLCP RNYVHTQLTF TFLKAGRVE LKDAALFHS DTDHCSFSTV LCKVSVASH FATMNRSLW LAEAVYLNCL LASTSPSSRR AFWLVLGAW GLPVLFTGTW VSKLAFEDI ACWDLDDTSP YWIIKGPV LSVGVNFGLF LNIIRIIVRK LEPAQSLHT QSQYWRLSKS TFLFLPLFGI HYIIFNELPD NAGLGIRLPL ELGLGSFQGF IVAILYCFLN QEVRTSIRK WHGHDPELLP AWRTRAKWT PPSRAAKVLT SMC	Homo sapiens
143	2120	Histamine H1 Receptor	NM_000861	caggagagaca tacaggattt aagaagccca tcatggagaa gaccttcaat tacagagata A aaaagtthtt cttgtgaaac aagttaacac tagatggcag ataacagact gaggagtgag ctgcttctga ctcgattaaa agggagtga gccataactg gcggctgctc ttctgccaat gagcctccc aattctcct gccctctaga agacaagatg tgtgaggga caaagaccac tatggccagc cccagctga tgcctctggt ggtggctcgt agcactatct gcttgggtcac agtagggctc aacctgctgg tgcgtatgac cgtacggagt gagcggaaagc tccacactgt ggggaacctg tacatgctca gccctcgggt ggccgacttg atcgtgggtg ccgtcgtcat gcctatgaac atcctctacc tgcctatgct caagtgttca ctgggccgtc ctctctgcct cttttggctt tccatggact atgtggccag cacagctgcc atttctagt tcttctacct gtgcatgtat cgtaccgct ctgtccagca gccctcagg taccttaagt atcgtaccac gaccagagcc tcggccacca ttctgggggc ctggtttctc tcttttctgt ggttatttcc cattctaggc tggaaatcact tcatgacga gacctcgtg gcgcgagagg acaagtgtga gacagacttc tatgatgtca cctgggttcaa ggtcatgact gccatcata acttctacct gccacacttg ctcatgctct ggttctatgc caagatctac agggccgtac gacaacactg ccagcaccgg gagctcatca ataggctcct cccttctctc tcagaaaata agctgaggcc agagaaacccc aaggggggatg ccaagaaacc agggaaaggag tctccctggg aggttctgaa	Homo sapiens

aaggaaagcca aaagatgctg gtggtggatc tgtcttgaag tcaccatccc aaacccccaa
ggagatgaaa tccccagttg tcttcagcca agaggatgat agagaagtag acaactctta
ctgctttcca ctgtatatgg tgcacatgca ggtgcgcgca gaggggagta gcagggacta
tgtagccgtc aaccggagcc atggccagct caagacagat gagcagggcc tgaacacaca
tggggccagc gagatatcag aggatcagat gttaggtgat agccaatcct tctctcgaa
ggactcagat accaccacag agacagacc aggcgaaggc aaattgagga gtgggtcttaa
cacaggcctg gattacatca agtttacttg gaagaggctc cgctgcatt caagacagta
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cacactgaac cccctcatct accccttggt caatgagaac ttcaagaaga cattcaagag
aattctgcat attcgtcctt aaggggaggt ctgaggggat gcaacaaaat gatccttatg
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tctggaatcc aaaccacagt cttaggggct tggtagtttg gaaagtctt aggcaccata
gaagaacagc agatggcgt gatcagcaga gagattgaac tttagaggagg aagcagaatc
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ataaaagaga gagagaatca gacctgggtg gaaactcct gctcctcagg aactatggga
gcctcagact cattgtaatt caagcttcc gagtcaagt attgacaact gaagagacac
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tataacttg cagagacttt atccatgcca atagttgttg tcccttcca ggggtcacct
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atttcttact caaacatgtt tagagtggat agaaaattat cgagcttgca caccatcat
ctttaacccc aaatttctt tggctattaa aaaagtgttg gcaaaaggca tctcaaaaag
aaagagaaat gaaatattt tgaatggtg cacgttaaaa attaaaaaga ggaatggggg
cagaaatgcca tatttttgag ggctgtacta ggtttatctc atttaagccc cacaacaccc
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cacaaaaatt atctgggcat ggtggggcat gcctgtatc ccacttact gggaggccga
ggcacgagaa tcgcttgaac ccgggaggtg gaggtggccg tgagccaaaga tcacgccact
gcactccagc ctgggcaaca gagcaagact ctgtctcaca aaaaaaata caatatatta
acaatgtgcc ctcttaagtg tgcacagata cacatcacg gtattcccaa gagtgtgtgg
agctcaaaat gatattgttg agtagacgaa cagctgacat ggagtcccg tgcacctacg
gaaggggacg ctttgaaagga accaagtga tttttatctg tgagtctgt tgtgtttgtc
aaaaagtcac tgtaactctt catagccata cctgtaagc aaaaactagt aaagacatag
gaacatgtag ttttacttgg tgtttatgtt gcaatctggt tgtgatttat attttaagc
ttggtgctaa accacaatat gtatagcaca tggagtgccat gtacaagctg atgttttga
ttttgtgttc ctcttggcat gatctgtcaa agtgagatat ttttacctgc ctaaaatatg

Homo
sapiens

144 2120 Histamine H1 NP_000852.1 Receptor P

atgttttaaaa gcatactcta tgtgatttat ttatttttac ctttctgact ctcttgagct
aagaagatgt ttgaaatgt accatcaaat gtttaacagag tttgatatgg gctttctctt
tggtttctca tcacatttgt aaatgtcttt tcaaaagagat ttactttttg taaaaagctt
cattctcaact ctgctttgca tcccccaaac ttcttgttca aaacgggggg agtttaggag
actttaatcc cggtttcaga agtgcagct ggtctgttcc caggtcagaa accattgttc
agaagacctc cctgtgagag agttgctcct cagggtccct caggaccaaa gaacactcga
aaagagcact tcacacagag aagtggctaa gtgtccatta ttacacctga acaatcaag
caactagtgg agagaaactga ttgtgagctc
MSLPNSSCLL EDKMCENKT TMASQMLPL VVLSSTCLV TVGLNLLVY AVRSERKLHT
VGNLYIVSL VADLIVGAV MPNNILYLLM SKWSLGRPLC LFWLSMDYVA STASIFSVEI
LCIDRYRSVQ QPLRYLKYRT KTRASATILG AWFLSFLWVI PILGWNHEMQ QTSVRREDKC
ETDFYDVTWF KVM TALINFY LPTLLMLWFY AKIYKAVROH COHRELINRS LPSFSEIKLR
PENPKGDARK PGKESPEVL KRPKIDAGG SVLKSPSQTP KEMKSPVVFES QEDDREVDKL
YCFPLDIVHM QAAAECSRD YVAVNRSHGQ LKTDQGLNT HGASEISEDQ MLGDSQSFSR
TDSDTTETA PGKGLRSGS NTGLDYIKFT WKRLRSHSRQ YVSGLHMNRE RKAQQLGFI
MAAFILCWIP YFIFFMVI AF CNKCCNEHLH MFTIWLGYIN STLNPLIYPL CNENFKKTFK
RILHINS

Homo
sapiens

145 2121 Histamine H2 NM_022304 Receptor A

ctctgcct ccactgactc cagagaggga gatccccagt acttgactcc atcacgcaga
tgaggagcagg caccagctat ggagagggat acagctgcgt ctccacatga cccatcctgc
atgacaccaa agccaccgcc agacagtgc tcggatttca tgcacaaacct gggaagcgga
gacctaaccc agccccggga ggaagctagc tcttcagggg accgtctgag gactggagtt
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caacacctta gaaggtgtg cttaatttat ttctagaaaa gcagcccaga gtcagtcatt
gaagccttcc ccacccctg gccaaaaaaa aaactggac acattttgga
tctgttgga gcttgagtc cagtgttgg catagtgtc acattgggag cagagaagaa
gcaaccagg gacctgatca gggactgag ccgtagagtc ccagatggc acccaatggc
acagcctctt cctttgctt ggactctacc gcctgcaaga tcaccatcac cgtggctcct
gcgtctctca tctctatcac cgtgtctggc aatgtgttgc tctgtctggc cgtgggcttg
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ctcctcgcc tctgtgtgct gcccttctt gccatctacc agctgtcctg caagtggagc
tttggcaagg tcttctgcaa tatctacacc agcctggatg tgatgctctg cacagcctcc
attcttaacc tcttcatgat cagcctcgac cgtactcgc ctgtcatgga cccactgcgg
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tccattaccc tgtcctttct gctatccac ctggggtgga acagcaggaa cgagaccagc
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gatgggctgg tcaccttcta cctcccgccta ctgatcatgt gcataccta ctaccgcctc
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accatcaggg agcacaaagc cacagtga caatggcgcc tgatggggc cttcatcatc
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aatgagggtg tagaagccat cgttctgtgg ctgggctatg ccaactcagc cctgaacccc
atcctgtatg ctgcgctgaa cagagacttc cgcacgggt accaacagct cttctgtgc

146	2121	Histamine H2 NP_071640.1 Receptor	aggctggcca accgcaact ccacaaact tctctaggt ccaacgcctc tagctgtcc aggacccaaa gccgagaacc caggcaacag gaagaaac ccctgaagct ccaggtgtgg agtggacag aagtcacggc cccacaggga gccacagaca ggtaatagcc ctagecattg gtgcacagga tgggggcaat gggaggggat gctactgatg ggaatgatta agggagctgc tgttaggtg gtgctggttt atgttctagg aactcttatg gacactttg taaacacct cttgcttaat cctcccaacg gccccaaaag gtagaactta gtccctttt aaaaggagca cattaaaatt ctcaaggac ttggcaaggg ccgcacagct ggggcat	Homo sapiens
147	2783	Opioid Receptor, kappa 1 (OPRK1)	MAPNGTASSF CLDSTACKIT ITVVLAVLIL ITVAGNVVVC LAVGLNRRLR NLNCFIVSL P AITDLLLGLL VLPFAIYQL SKWSEKQVF CNIYTSIDVM LCTASINLF MISLDRYCAV MDPLRYPLV TPVRVAISLV LIWVISITLS FLSIHGWN SNETSKGNHT TSKCKVQVNE VYGLVDGLVT FYLPLIMCI TYRIFKVAR DQAKRINHIS SWKAATIREH KATVTLAAM GAFTICWEPY FTAFFVYRGLR GDDAINEVLE AIVLWLVAN SALNPILYAA LNRDFRTGYQ QLFCCRLANR NSHKTSLRSN ASQLSRTQSR EPRQEEKPL KLQVWSGTEV TAPQGATDR tgcagcactc accatggaat ccccgattca gatcttcgc gggagacctg gccctacctg A cgccccgagc gcctgcctgc cccccacag cagcgccctg tttccccgct gggccgagcc cgacagaaac ggcagcgccg gctcgaggga cgcgcagctg gagcccgccg acatctccc ggccatcccc gtcacatca cggcggtcta ctccgtagt ttcgtcgtg gcttgggtggg caactcgctg gtcagtctg tgatcatccg atacacaaag atgaagacag caaccaacat ttacatattt aacctggctt tggcagatgc tttagtactt acaacctgc cctttcagag tacggctctac ttgatgaatt cctggccttt tggggatgtg ctgtgcaaga tagtaatttc cattgattac tacaacatgt tcaccagcat gcttacctg accatgatga gcgtggagccg ctacattgcc gtgtgccacc ccgtgaaggc tttggacttc cgcacacct tgaaggcaaa gatcatcaat atctgcatct ggctgctgtc gtcatctgtt ggcatctctg caatagtctt tggaggcacc aaagtcaggg aagacgtcga tgtcatgtag tgcctctgc agttcccaga tgatgactac tcctggtggg acctcttcac gaagatctgc gtcttcact tgccttctg gatccctgtc ctcatcatca tcgtctgcta caccctgatg atcctgcgtc tcaagagcgt cggctcctt tctggctccc gagagaaaga tcgcaacctg cgtaggatca ccagactggt cctggtggtg gtggcggtt tcgtgctctg ctggactccc attcacatat tcatctggt ggaggctctg gggagcacct cccacagcac agctgctctc tccagctatt acttctgcat cgcttaggc tataccaaca gtacccctga tccattctc tacgccttc ttgatgaaa cttcaggcg tggttccggg acttctgctt tccactgaag atgaggatgg agcggcagag cactagcaga gtccgaaata cagttcagga tctcgcttac ctgagggaca tcatgggat gaataaaccga gtatgactag tcgtggagat gtctctgtac ag MESPIQIFRG EPGTCAPSA CLFPNSSAWF FGWAEPDSNG SAGSEDAQLE PAHISPAIPV P IITAVYSVVF VGLVGNLSV MFVIIRYTKM KTATNIYIFN LALADALVTT TMPFQSTVYL MNSWPFQDVL CKIVISIDY NMFTSIFTLT MMSVDRIYAV CHPVKALDFR TPLKAKIINI CIWLLSSSVG ISAILGGTK VREDVDVIEC SLQFPDDDDYS WDLFMKICV FIFAFVIVPL IIIVCYTILMI LRLKSVRLLS GSREKDRNLR RITRLVLVV AVFVVCWTFI HIFILVEALG STSHSTAALS SYFCIALGY TNSSLNPILY AFLDENFKRC FRDFCFPLKM RMERQSTSRV RNTVQDPAYL RDIDGMKPV	Homo sapiens
148	2783	Opioid Receptor, kappa 1 (OPRK1)	NP_000903.1 aggcgcacct gaagcagcgg ttctcggcgc tgcagctgct gaagctgctg ctgctgctgc A	Homo sapiens
149	2964	Luteinizing	NM_000233	Homo

Hormone/Chor
iogonadotrop
in Receptor

sapiens

agccgcgcgt gccacgagcg ctgcgcgagg cgctctgccc tgagccctgc aactgcgtgc
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150 2964 Luteinizing NP_000224.1 Homo sapiens
Hormone/Chor
iogonadotrop
in Receptor

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ccacagtgcg acgtgctggc ctatgagaaa ttcttctctc tccttgctga attcaactct

151 2976 Lysophosphat NM_001401 Homo sapiens
idic Acid
Receptor
Edg2

152	2976	Lysophosphat idic Acid Receptor Edg2	NP_001392.1	gcatgaacc ccatcattta ctctaccgc gacaaagaaa tgagcgccac cttaggcag atctctgct gccagcgag tgagaaacccc accggcccca cagaaggctc agaccgctcg gcttctccc tcaaccacac catctggct ggagttcaca gcaatgacca ctctgtggtt tagaacggaa actgagatga ggaaccagcc gtcctctctt ggaggataaa cagcctcccc ctaccaatt gccaggcaa ggtggggtgt gagaggag aaaagtcaac tcatgtactt aaacactaac caatgacagt atttgttctt ggaccacca agacttgata tatattgaaa attagcttat gtgacaaccc tcatcttgat ccccatccct tctgaaaagta ggaagtgtga gctcttgcaa tggaattcaa gaacagactc tggagtgtcc atttagacta cactaaactag acttttaaaa gattttgtgt ggtttgtgtc aagtcagaat aaattctggc tagttgaatc cacaaacttca ttatatata gcttccctt ttttattttt aaaggatacg ttccacttaa taaacacgtt tatgcctatc agcatgtttg tgatggatga gactatggac tgccttttaa ctaccataat tccatttttt cctttacata ggaacctgtt aagttggaat tatcttttgt ttagaaagca tgcattgtaat gtatgtatgc agtatgcctt acttaaaaag attaaaaaga tactaatgtt aaatcttcta ggaatatagaa cctagacttc aaagccagta ttgttttagg tcatgaagca acaaatgctc taatcacaa attaaactgt taattaaaat gttgtaacaa gtataaaca gggaaatgtaa gtttattacc aaagtgtat gtattccaaa aaagtcatag aagatgaagc actataatat tgttcccata tatttaaaat acccaagtac attctaatta ccagtatatc agaggaaaat ttctgtagtc ttgtgtaaat aatatactca tcatagaaaa cttgaaaaat gcagaaatgt ataaaaagc aaaaatgatt actgataata tcacaaccca gaagtaacca cctttaaaaa gcaaccccca tgtatgccta tatgtgtatt gtatactttt tttacataat tggagtcata ctgtaaacag ttattataagt agatcttttt cattgcacaaa ttgccacatt ttcttatggc attaaaaat ttacaaaac ataattttaa tggctatat atattccatt taatggatgc aactcagttt attaaacat tcccatgttg ttaactattt aggtgtgttc taatttcat tattataaag ttgcagaaat ttggtgt 153	3038	G Protein- Coupled Receptor MRG	S78653	ttttgtattt gttgcaccct aagtcgttct atttccttct cctcagctga catttgagc A atagcagtcg atgatgccca cacagacact gcctgagact cagccccctg gaaaaacgca gatttctcta ttttccaggt caagtcctgc cagccataga aaggacttct ttggtgccc ctgctgtgaa atgcctgcct tggaaatctc agtgcctcct tgtacctgtc tgagccaggy gaaatgccat actgtggcac tgcctgatcc tgtatggcta cccaaggatg cccaggactg gtttgaaaga gatgagacat ggccaggtgc ttggctcagc ctgtataatc agcactttg gaggtcaagg cagtggatca caaggtcaga gttgagacca gccaggccaa tatggtgaaa acccatctc tactaaaaat acaaaaaatt agccgggcaa tgggtgtgtg tgcctgtagt tccagctagt caggaggccg aggcaggaga atcgcttgaa cctggaaggt ggaggttcca gtgagctgag atcgcgccac tgcactccag cctgggtgac agagtggagc tccaactcaa	Homo sapiens	Homo sapiens
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154	3038	G Protein- Coupled Receptor MRG	AAB21255.1	<p> aaaaaaaaa aaaaagaga tgagacacta gtgtctcatg agtagaacct ggaccagaca caaatctcca ttcccaatgt ttagtgcctc attagtcccc aacacaaga tattgggtct atgtgggtag gctggggga tctgtgacaa caggagatgt gttaggggag ggagaacaga tcacaaattc atggagagct atttgacag cagatactcc catccactct gatattgagt taattgtcag ctgttccctaa aaagcacacc caacaatggg tgtttattc cagctcagga aaatgtagag gcaagggtc tgaggccaga ggaccacct agatggacca ctgctcctga ctgtgatgtt gtggcccat caggtcccat caccacctgg tctgggggaa aattgctgg ttcagccaga gggctggatg gacagtgttt gctgagtcac agatatctct ctcattgtagc ctttgtctcc acagtgtga ccaggaggca cagaacccaa acctggatc tcagctctgt ggcgtctttc tcaaaaatga gacgaatgaa accatacata tgcagatgag catggcagtg ggacagcagg cctgcccctt gaatacatt gccccaaagg ctgtgctggt cctcctctgt gggtctttat tgaatggcac tgtctctgtg ctgcttctgt gtggggccac gaatccctac atggtatata tctccacct ggtgctgct gactgactct atctttgctg ctggcagtg gggtctttac aggtgactct gctaacttat catggagtcg tgttttttat ccttgatttc ctggccatat tgtctccctt cctctttgag gtgtgtctct gtctcctggt ggccatcagc acagagcgtt gtgtgtgtgt cctctcccc atctggtaca gatgccaccg cccaaaatc acatctaata ttgtctgcac cctcatctgg ggcctgctt tttgcataa catagtaaaa tcaactttcc taacttactg gaaacatgta aaggcatgtg tcataattct aaagctttct gggtctctcc atgtctatct ttcactgtgt atgtgtgtgt cgagtctgac tctactcatt agattctctgt gctgctccca gcagcaaaa gcactcactc agcatgtgga gaaccttctt tcggccccc a tttctctact ctggcccta cccctgagcg tggcaccctt cataacagat ttcaaaaatgt ttgtcaccac ctctctatta atttctgtt tcctcattat aaacagcagc gccaaccta tcaattattt ctttgtggg agcctcagaa agaaaaggct gaaggatct ctcagagtga ttctcaacg ggcgttagca gataagccag aggtggggag gaacaaaaag gcagtggga tcgacccaat ggagcaacca cactctactc agcatgtgga gaaccttctt cccagggagc acagggtcga tgtggaaca taatttccca catctgagct gggaattgt acacatagta accagcctg ttctgcatca taaggctgct gcatacaatc atgctttat tctaataaag ttcagctttc atggactttc aaaaacaccc ctgtgtgttt gtggttgaa gagacattaa cttcctctct aggcagtaag cccagtttga atgtgctcca gtcccaacga tgaggggaaat gggaccagat gagactttcc tggtaacctgt ggaatccaaa taaagacct acaaaggcat gaattc </p>	Homo sapiens
155	3057	Melanocortin 3 Receptor (MC3R)	NM_019888	<p> atgagcatcc aaaaagata tctggaggga gattttgtct ttcctgtgag cagcagcagc A ttcctacgga cctgtctgga gccccagctc ggatcagccc ttctgacagc aatgaatgct tcgtgtcgtc tgccctctgt tcagccaaca ctgcctaag gctcggagca cctccaagcc </p>	Homo sapiens

156	3057	Melanocortin NP_063941.1 3 Receptor (MC3R)	MSIQKKYLEG DEVPVSSSS FLRTLLPQL GSALLTAMNA SCCLPSVQPT LPNGSEHLQA P PFFSNQSSA FCEQVFIKPE IFLSLGIVSL LENILVILAV VRNGNLHSPM YFFLCSLAVA DMLVSVSNAL ETIMIAIVHS DYLTFFDOFI QHMDNIFDSM ICISLVASIC NLLAIADRY VTIFYALRYH SIMTVRKALT LIVAIWVCCG VCGVVFIVYS ESKMIVCLLI TMFFAMVLLM GTLVYHMFLE ARLHVKRIAA LPPADGVAPQ QHSCMKGAVT ITILLGVFI CWAPFFLHLV LIITCTPNPY CICYTAHENT YLVLMCNV IDPLIYAFRS IELRNTFREI LCGNGMNLG atggtgaact ccaccacccg tgggatgcac acttctctgc acctctggaa ccgcagcagt A tacagactgc acagcaatgc cagtgagtcc ctgggaaaag gctactctga tggagggtgc tacgagcaac tttttgtctc tcctgaggtg tttgtgactc tgggtgtcat cagcttgttg gagaatatct tagtgattgt ggcaatagcc aagaacaaga atctgcattc acccatgtac ttttcatct gcagcttggc tgtggctgat atgctggatga gcgtttcaaa tggatcagaa accattatca tcacctatt aacacgtaca gatacggatg cacagagttt cacagtgaat attgataatg tcattgactc ggtgatctgt agctccttgc ttgcatccat ttgcagcctg ctttcaattg cagtggaacag gtactttact atcttctatg ctctccagta ccataacatt atgacagtta agcgggttgg gatcatata agttgtatct gggcagcttg cacggtttca ggcattttgt tcatcattta ctcatagatg agtgcgttca tcatctgcct catcaccatg ttcttcacca tgctggtctc catggcttct ctctatgtcc acatgttctt gatggccagg cttcacatta agaggatgct tgtcctcccc ggcactggtg ccatacgcga aggtgccaat atgaaggagg cgattacatt gaccatctg attgccgttct ttgttgtctg ctgggcccc ttcttctcc acttaattt ctacatctct tgtcctcaga atccatattg tgtgtgcttc atgtctcact ttaacttgta tctcactg atcatgtgta attcaatcat cgatccctctg atttatgac tccggagtca agaactgagg aaacacctca_aagagatcat ctgttgcatt ccccctgggag gcttttga ctgtctagc agatattaa	Homo sapiens
157	3058	Melanocortin NM_005912 4 Receptor (MC4R)	ENILVIVAIA KNKNLHSPMY FFICSLAVAD MLVSVSNGSE TIIITILNST DTDACSFTVN atggtgaact ccaccacccg tgggatgcac acttctctgc acctctggaa ccgcagcagt A tacagactgc acagcaatgc cagtgagtcc ctgggaaaag gctactctga tggagggtgc tacgagcaac tttttgtctc tcctgaggtg tttgtgactc tgggtgtcat cagcttgttg gagaatatct tagtgattgt ggcaatagcc aagaacaaga atctgcattc acccatgtac ttttcatct gcagcttggc tgtggctgat atgctggatga gcgtttcaaa tggatcagaa accattatca tcacctatt aacacgtaca gatacggatg cacagagttt cacagtgaat attgataatg tcattgactc ggtgatctgt agctccttgc ttgcatccat ttgcagcctg ctttcaattg cagtggaacag gtactttact atcttctatg ctctccagta ccataacatt atgacagtta agcgggttgg gatcatata agttgtatct gggcagcttg cacggtttca ggcattttgt tcatcattta ctcatagatg agtgcgttca tcatctgcct catcaccatg ttcttcacca tgctggtctc catggcttct ctctatgtcc acatgttctt gatggccagg cttcacatta agaggatgct tgtcctcccc ggcactggtg ccatacgcga aggtgccaat atgaaggagg cgattacatt gaccatctg attgccgttct ttgttgtctg ctgggcccc ttcttctcc acttaattt ctacatctct tgtcctcaga atccatattg tgtgtgcttc atgtctcact ttaacttgta tctcactg atcatgtgta attcaatcat cgatccctctg atttatgac tccggagtca agaactgagg aaacacctca_aagagatcat ctgttgcatt ccccctgggag gcttttga ctgtctagc agatattaa	Homo sapiens
158	3058	Melanocortin NP_005903.1 4 Receptor	YEQLFVSPEV FVTLGVISLL P atggtgaact ccaccacccg tgggatgcac acttctctgc acctctggaa ccgcagcagt A tacagactgc acagcaatgc cagtgagtcc ctgggaaaag gctactctga tggagggtgc tacgagcaac tttttgtctc tcctgaggtg tttgtgactc tgggtgtcat cagcttgttg gagaatatct tagtgattgt ggcaatagcc aagaacaaga atctgcattc acccatgtac ttttcatct gcagcttggc tgtggctgat atgctggatga gcgtttcaaa tggatcagaa accattatca tcacctatt aacacgtaca gatacggatg cacagagttt cacagtgaat attgataatg tcattgactc ggtgatctgt agctccttgc ttgcatccat ttgcagcctg ctttcaattg cagtggaacag gtactttact atcttctatg ctctccagta ccataacatt atgacagtta agcgggttgg gatcatata agttgtatct gggcagcttg cacggtttca ggcattttgt tcatcattta ctcatagatg agtgcgttca tcatctgcct catcaccatg ttcttcacca tgctggtctc catggcttct ctctatgtcc acatgttctt gatggccagg cttcacatta agaggatgct tgtcctcccc ggcactggtg ccatacgcga aggtgccaat atgaaggagg cgattacatt gaccatctg attgccgttct ttgttgtctg ctgggcccc ttcttctcc acttaattt ctacatctct tgtcctcaga atccatattg tgtgtgcttc atgtctcact ttaacttgta tctcactg atcatgtgta attcaatcat cgatccctctg atttatgac tccggagtca agaactgagg aaacacctca_aagagatcat ctgttgcatt ccccctgggag gcttttga ctgtctagc agatattaa	Homo sapiens

159	3059	Melanocortin NM_005913 5 Receptor (MC5R)	(MC4R)	IDNVIDSVIC SLLASICS LLSIAVDRYFT IFYALQYHNI MTVKRVGIII SCIWAAC TVS GILFIYSDS SAVIICLITM FFTMLALMAS LYVHMFIMAR LHIKRIAVLP GTGAIRQGAN MKGAITLITL IGVFVVCWAP FFLHLIFYIS CPQNPYCVCF MSHFNLYLIL IMCNSIIDPL IYALRSQELR KTFKEIICCY PLGGLCDLSS RY atgaatcct catttcacct gcatttcttg gatctcaacc tgaatgccac agagggaac A ctttcaggac ccaatgtcaa aaacaagtct tcaccatgtg aagacatgg catgtctgtg gagtggttc tcaactggg tgtcatcagc atctctgaga acatcttggt cataggggcc atagtgaga acaaaaacct gcactcccc atgtacttct tcgtgtgag cctggcagtg gcggacatgc tggtagcat gtccagtgc tgggagacca tcaccatcta cctactcaac aacaagcacc tagtgatagc agagccttt gtgcgccaca ttgacaaagt gtttgactcc atgatctgca ttccgtggt ggcacatag tgcagcttac tggccattgc agtgatagg tacgtacca tcttctacgc cctgcgtac caccacatca tgacggcgag gcgtcaggg gccatcatgc cggcatctg ggtttctgc acgggctgc gcattgtct catcctgtac tcagaatcca cctacgtcat cctgtgcttc ctgcgcgga ctcacgtcaa gcgacgcg ctggtgtctc tgtacataca catgttctc ctggcgagg ctcacgtcaa gcgacgcg gctctgccc gggccagctc tgcgcggcag aggacacaga tgcaggcggc ggtcacccgc accatgctgc tggcggtgtt taccgtgctg tgggcccgt tcttcttca tctcacttta atgcttctt gccctcagaa cctctactgc tctcgttca tgtctcact caatatgtac ctcatactca tcatgtgtaa ttcgtgatg gaccctctca tatatgcct cgcagccaa gagatgcga agaccttaa ggagattatt tgcgtcgtg gttcaggat cgcctgcagc tttccagaa gggattaa 160 3059 Melanocortin NP_005904.1 5 Receptor (MC5R)	IVKNKHLSP MYFFVCSLAV ADMLVSMSSA WETITIYLLN NKHLVIADAF VRHIDNVFDS MICISVVASM CSLLAIAVDR YVTIFYALRY HHIMTARRSG AIIAGIWAFC TCGGIVFILI SESTYVILCL ISMFFAMLF LVS LYIHMFL LARTHVKRIA ALPGASSARQ RTSMQGAVTV TMLJGVFTVC WAPFFLHLTL MLSCPQLYLC SRFMSHFNNY LILIMCNSVM DPLIYAFRSQ EMRKTFKEII CCRGFRIACS FPRRD ggagagggtg tgagggcaga tctgggggtg cccagatgga aggagggcag catgggggac A accgaagcc cctggcagc accatgaact aagcaggaca cctggagggg aagaactgtg gggacctgga ggcctccac gactccttc ggtctcctg acaggactat ggtgtgag ggatccaga gaagacttct gggctccctc aactccacc ccacagccat cccccagctg gggtggctg ccaaccagac agagcccgg tgcctggagg tgcctatctc tgacgggctc ttcctcagcc tggggctggt gagcttggtg gagaacgcgc tgggtggtgg caccatcgcc aagaaccgga acctgcact accatgtac tgcctcatc tctgcttgc cttgtcgagc ctgctggtga gcgggagcaa cgtgctggag acggccgta tctcctgct ggaaggccgt gcactggtgg cccgggctgc ggtgctgag cagctggaca atgtcattga cgtgatcacc tgagctcca tctgttccag cctctgctc ctggcgcca tgcctgtgga cgcctacatc tccatctct acgcaactgc ctaccacag atcgtgacc tgcgcgggc gcggcaagcc gttgcggcca tctgggtggc cagtgtctc ttcagacgc tcttcatgc ctactacgac cacgtggccg tctgctgtg cctcgtggtc tcttctctg ctatgctgt gctcatggcc gtgctgtacg tccacatgct ggccccggcc tgcagcagc cccaggggcat cgccccgctc	Homo sapiens
160	3059	Melanocortin NP_005904.1 5 Receptor (MC5R)		160 3059 Melanocortin NP_005904.1 5 Receptor (MC5R)	IVKNKHLSP MYFFVCSLAV ADMLVSMSSA WETITIYLLN NKHLVIADAF VRHIDNVFDS MICISVVASM CSLLAIAVDR YVTIFYALRY HHIMTARRSG AIIAGIWAFC TCGGIVFILI SESTYVILCL ISMFFAMLF LVS LYIHMFL LARTHVKRIA ALPGASSARQ RTSMQGAVTV TMLJGVFTVC WAPFFLHLTL MLSCPQLYLC SRFMSHFNNY LILIMCNSVM DPLIYAFRSQ EMRKTFKEII CCRGFRIACS FPRRD ggagagggtg tgagggcaga tctgggggtg cccagatgga aggagggcag catgggggac A accgaagcc cctggcagc accatgaact aagcaggaca cctggagggg aagaactgtg gggacctgga ggcctccac gactccttc ggtctcctg acaggactat ggtgtgag ggatccaga gaagacttct gggctccctc aactccacc ccacagccat cccccagctg gggtggctg ccaaccagac agagcccgg tgcctggagg tgcctatctc tgacgggctc ttcctcagcc tggggctggt gagcttggtg gagaacgcgc tgggtggtgg caccatcgcc aagaaccgga acctgcact accatgtac tgcctcatc tctgcttgc cttgtcgagc ctgctggtga gcgggagcaa cgtgctggag acggccgta tctcctgct ggaaggccgt gcactggtgg cccgggctgc ggtgctgag cagctggaca atgtcattga cgtgatcacc tgagctcca tctgttccag cctctgctc ctggcgcca tgcctgtgga cgcctacatc tccatctct acgcaactgc ctaccacag atcgtgacc tgcgcgggc gcggcaagcc gttgcggcca tctgggtggc cagtgtctc ttcagacgc tcttcatgc ctactacgac cacgtggccg tctgctgtg cctcgtggtc tcttctctg ctatgctgt gctcatggcc gtgctgtacg tccacatgct ggccccggcc tgcagcagc cccaggggcat cgccccgctc	Homo sapiens
161	3061	Melanocortin NM_002386 1 Receptor (MC1R)		161 3061 Melanocortin NM_002386 1 Receptor (MC1R)	ggagagggtg tgagggcaga tctgggggtg cccagatgga aggagggcag catgggggac A accgaagcc cctggcagc accatgaact aagcaggaca cctggagggg aagaactgtg gggacctgga ggcctccac gactccttc ggtctcctg acaggactat ggtgtgag ggatccaga gaagacttct gggctccctc aactccacc ccacagccat cccccagctg gggtggctg ccaaccagac agagcccgg tgcctggagg tgcctatctc tgacgggctc ttcctcagcc tggggctggt gagcttggtg gagaacgcgc tgggtggtgg caccatcgcc aagaaccgga acctgcact accatgtac tgcctcatc tctgcttgc cttgtcgagc ctgctggtga gcgggagcaa cgtgctggag acggccgta tctcctgct ggaaggccgt gcactggtgg cccgggctgc ggtgctgag cagctggaca atgtcattga cgtgatcacc tgagctcca tctgttccag cctctgctc ctggcgcca tgcctgtgga cgcctacatc tccatctct acgcaactgc ctaccacag atcgtgacc tgcgcgggc gcggcaagcc gttgcggcca tctgggtggc cagtgtctc ttcagacgc tcttcatgc ctactacgac cacgtggccg tctgctgtg cctcgtggtc tcttctctg ctatgctgt gctcatggcc gtgctgtacg tccacatgct ggccccggcc tgcagcagc cccaggggcat cgccccgctc	Homo sapiens

164	3079	Melatonin Receptor type 1a	NP_005949.1	<p> cacaaccaca accaacacca caaacctttc agctggcaga gtagcattg gtagctata ctcatggtca taaatgtttg ccgctctata ttacaagttg tgcataaac cagataaaga actaaatcat aggcgggca cagtcgctca cactgtaat ctcagcactt tgggaggctg aggtgggcag atcaactgag ttacaggatt tgagaccacc cttggggcaac atgatgaaat cccatctcta aaaaaatata aaaaattatc tgggcatggt gcaacgcct gtaatccccag ctactcagga gactgagtta ggagaatccc ttgagcccca gaggcagagg ttgtggtgag ccgagatcgc gccagttacat tccaacttag gctacagaaat gagactctgc ccaaaaaaaa aaaaaaaa </p>	Homo sapiens
165	3080	Melatonin Receptor type 1b	NM_005959	<p> MQNGSALPN ASQVLRGDG ARPSWLASAL ACVLIFTIV DILGNLLVIL SVYRNKKLRN P AGNIFVSLA VADLVVAIYP YPLVMSIFN NGWNLGYLHC QVSGFLMGLS VIGSIFNITG IAINRYCYIC HSLKYDKLYS SKNSLCYVLL IWLLTLAVAL PNLRACTLQY DPRIYSCCTFA QSVSSAYTIA VVVFHFLVPM IIVIFCYLRI WILVLQVRQR VKPDRKPKLK PQDFRNFVTM FWFVLEAIC WAPLNFIGLA VASDPASMVP RIPEWLFVAS YXWAYFNSCL NAIYYGLLNQ NFRKEYRRII VSLCTARVFF VDSSNDVADR VKWKPSPLMT NNNVVKVDVS </p>	Homo sapiens

166	3080	Melatonin Receptor type 1b	NP_005950.1	<p>ttgtaacta caaggcctc agtggggca ggtcagagg gc MSENGSFANC CEAGWAVRP GWSGAGSARP SRTPRPWVA PALSAVLIVT TAVDVVGNLL P VILSVLRNRK LRNAGNLFV SLALDLVVA FYPYPLIVA IFYDGMALGE EHCKASAFVM GLSVIGSVFN ITAIAINRYC YICHSMAYHR IYRRWHTPLH ICLIWLTWV ALLPNFFVGS LEYDPRIYSC TFIQTASTQY TAAVVVHFL LPIAVVSFCY LRIWVLVLA RRAKAPESRL CLKPSDLRSF LTMFVVFVIF AICWAPLNCI GLAIVNPQE MAQIPEGLF VTSYLLAYFN SCLNAIVYGL LNQNFREYK RILLALWNP R HCIQDASKGS HAEGLSQSPAP PIIGVQHQAD AL</p>	Homo sapiens
167	3081	Melatonin- Related Receptor	NM_004224	<p>tgtttgctgt ctggactggt ctgctgatcc tgagctgctt gggagatctt aacgatcccc A aggagcaaca tggggccac cctagcgggt cccacccct atggctgtat tggctgtaag ctaccacagc cagaataccc accggctcta atcatcttta tgttctggc gatggttacc accatcgttg tagactaat cggcaactcc atggtcattt tggctgtgac gaagaacaag aagtcocgga attctggcaa catctcgtg gtcagtctct ctgtggccga tatgtgtgtg gcatctacc catacccttt gatctgcat gccatgtcca ttgggggctg gatctgagc cagttacagt gccagatggt cgggttcac acagggtgga gtgtgggtgg ctccatcttc aacatcgtgg caatcgctat caaccgttac tgcacatct gccacagcct ccagtaacgaa cggatcttca gtgtgcgcaa tacctgcatc tacctgttca tcacctggat catgacccgc ctggctgtcc tgcccaacat gtacattggc accatggagt acgatccctg cacctacacc tgcatcttca actatctgaa caaccctgtc ttcactgtta ccatcgtctg catccacttc gtctccctc tctcatcgtt gggttcttgc tactgagga tctggacca agtgcgtggcg gcccgtgacc ctgcagggca gaatcctgac aaccaacttg ctgagggttcg caattttcta accatgtttg tgatcttct cctctttgca gtgtgctggt gccctatcaa cgtgctcact gtcttggtgg ctgtcagtc gaaggagatg gcaggcaaga tcccaactg gctttatctt gcagcctact tcatagccta cttcaacagc tgcctcaacg ctgtgatata cgggctcctc aatgagaatt tccgaagaga atactggacc atcttccatg ctatgcgga ccctatcata ttcttccctg gcctcatcag tgatattcgt gagatgcagg aggcccgta cctggcccg gcccgtgccc atgtcgcgga ccaagctcgt gaacaagacc gtgcccatac ctgtcctgct gtggaggaaa ccccgatgaa tgtccggaat gttccattac ctgtgtatgc tgcagctggc caccgcgacc gtgcctcttg ccaaccctaag cccatttcca gatcctcctc tgcctatcgc aaatctgct ctaccacca caagtctgtc tttagcact ccaagggtgc ctctggtcac ctcaagcctg tctctggcca cccaagcct gcctctggtc acccaagtc tgcactgtc taccctaagc ctgcctctgt ccatttcaag ggtgactctg tccatttcaa ggtgactct gtccatttca agcctgactc tgttcattc aagcctggtt ccagcaaccc caagcccatc actggccacc atgtctctgc tggcagccac tccaagctg cctcagtagc tgcaccagc caccctaaac ccataagcc agctaccagc catgtgagc caccactgct tgactatccc aagcctgcca ctaccagcca ccctaagccc gctgctgctg acaacctga gctctctgcc tcccattgcc ccgagatccc tgccattgcc caccctgtgt ctgacgacag tgacctcct gagtgggct ctgacctgc cgtggggccc accaagctg ctgcccagca gctggagctt gacaccatg ctgaccttc tgacctact gtagtacta ccagtaccaa tgattaccat gatgtgtgg ttgtgtatgt tgaagatgat cctgatgaaa tggctgtgtg aaaaatgctc tcgtagggtg ccaggcagt</p>	Homo sapiens

168	3081	Melatonin- Related Receptor	NP_004215.1	MGPTLAVPTP YGCIQCKLKPQ PEYPPALIIF MFCAMVITIV VDLIGNSMVI LAVTKNKKLR P NSGNIFVVS L SVADMLVAIY PYPLMLHAMS IGGWDLSQLQ QMVGFIITGL SVVGSIFNIV AIAINRYCYI CHSLQYERIF SVRNTCIYLV ITWIMTVLAV LPNMYIGTIE YDPRTYTCIF NYLNNPVFTV TIVGCHFLVP LLIVGFCYVR IWKVLAARD PAGQNPNDQL AEVRNFLTME VIFLLFAVCW CPINVLTVLV AVSPKEMAGK IPNWLTYLAAY FIAYENSCLN AVIYGLLEN FRREYWTIFH AMRHPILIFFP GLISDIREMQ EARTLARARA HARDQAREQD RAHACPAVEE TPMNVNRNVL PGDAAGHPD RASGHPKPHS RSSSAYRKSA STHKSVFESH SKAASGHLKP VSGHSPASG HPKSATVYPK PASVHFKGDS VHFKGSVHF KPDSVHEKPA SSNPKPITGH HVSAGSHSKS AFSATSHPK PIKATSHAE PTTADYPKPA TTSHPKPAAA DNPELSASHC PEIPAIAHPV SDDSDLPESA SSPAAGPTKP AASQLES DTI ADLPDPTVVT TSTNDYHDVV VVDVEDDPDE MAV	Homo sapiens
169	3093	Metabotropic Glutamate Receptor 1	NM_000838	gaattccctt acaaacgcct ccagcttgta gaggcggtcg tggaggaccc agaggaggag A acgaaggga agaggcggt ggtggaggag gcaaggcct tggacgacca ttgttggcga ggggcaccac tccgggagag ggcgcgtgg gcttcttggg ggtgcgcgc gggagcctgc agcgggacca tccgtgggaa ggcgtgggca ggcgtgggac ctgcctcca ccaccatggt cgggtccctt ttgtttttt tccacgcgat cttttgggag gtgtcccttc tccccagaag cccgggcagg aaagtgttgc tggcaggagc gtgtctcag cgtcgttgg ccagaatgga cggagatgtc atcatggag ccctcttctc agtccatcac cagccctcgg ccgagaaaagt gccgagagg aagtgtggg agatcaggga gcagtaggc atccagagg tggaggccat gttccacacg ttggataaga tcaacgcgga cccgtctctc ctgcccaca tcacctggg cattgagatc cgggactcct gctggcactc ttccgtgggt ctggaacaga gcattgagtt cattaggagc tctctgatt ccattcgaga tgagaaggat gggatacaac ggtgtctgcc tgacggccag tccctcccc caggcaggac taagaagccc attgcggag tgatcggctc cggctccagc tctgtagcca ttaagtga gaactgtctc cagctcttcg acatccccc gatcgcttat tcagccacaa gcatagcct gattgacaaa actttgtaca aatacttctc gaggtttgtc cttctgaca ctttcaggc aaggggcattg cttgacatag tcaaacgtta caattggacc tatgtctctg cagtccacac ggaagggaat tatggggaga gcggaatgga cgctttcaaa gagctggctg ccaggaaagg cctctgtatc gccattctg acaaaatcta cagcaacgct ggggagaaga gctttgaccg actctgcgc aaactccgag agaggcttcc caaggctaga gtgtgtgtct gcttctgtga aggcatagaca gtgcgaggac tcctgagcgc catcgcgccg cttggcgctc tgggcgagtt ctactcatt ggaagtgatg gatgggcaga cagagatgaa gtcatgaa gttatgaggt ggaagccaac gggggaatca cgataaaagt gcagtctcca gaggtcaggt catttgatga ttatttctg aaactgaggc tggacactaa cacagggaat cctgtgttcc ctgagttctg gcaactcggg ttccagtgc cccttccagg acacttctg gaaaatccca acttaaacg aatctgaca ggcaatgaaa ccttagaaga aaactatgtc caggacagta agatgggtt tgatcatcat gccatctatg ccattggcaca tgggtgtcag aacatgcacc atgcctctg cctgtggcac gtgggcctct cgcattgccat gaagccatc gacggcagca agctgttga cttctcatc aagtcctcat tcattggagt atctggagag gaggtgtggt ttgatgagaa aggagcgtt cctggaagg atgatatac gaatctgcag tacactgaag ctaatcgcta tgactatgtg cacgttgga cctggcatga aggagtgtg aacattgatg attacaaaat ccagatgaac aagagtggag tgggtcgggc	Homo sapiens

tgtgtgcagt gaggcttgct taaggggcca gattaaggtt atacggaaag gagaagtgag
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172	3094	Metabotropic NP_000830.1 Glutamate Receptor 2	aggtcgctt tgaccgctt ggtgatggtg ttggcgcgta caacatctc acctatctg gtgcaggcag tggcgctat cgctaccaga aggtgggcta ctggcgagaa ggttgactc tggacaccag cctcatccca tgggctctac cgtcagccgg cccctggcc gcctctcgt gcagtgcgc ctgctccag aatgagtga agagtgcga gccggcgaa gtctgctgt ggctctgcat tccgtgccag ccctatgagt accgattgga cgaattcact tgcgtgatt tggcctggg tctactggcc aatggcaggc tgactggctg cttcgaactg cccaggagt acatcgtg ggcgatgcc tgggctgtgg gacctgtcac catcgctgc ctcggtgccc tggccacct gtttgtctg ggtgtctttg tgcggcaca tgccacaca gtggtcaagg cctcaggtcg ggagctctg tacatctgc tgggtgtgt cttcctctg tactgcatga ccttcattt cattgccaag ccataccagg cagtgtgtac cttacggcgt cttgggtttg gcactgctt cctgtctgc tactcagccc tgcacaca gaccaaccg attgcacga tcttcggtg ggcgcgggag ggtgcccagc ggccacgctt catcagctt gcctcacagg tggccatctg cctggcactt atctcgggc agctgctcat cgtgctgccc tggctggtg tggagcacc ggcacaggc aagagacag ccccgaaag cgtggaggtg gtgacactgc gtgcaacca ccgcatgca agtatgttg gctcgtctg ctacaatgtg ctcctcctg cgctctgac gctttatgc ttaatactc gcaagtggc cgaatactt aacgagggca agttcattg cttcaccatg tacaccact gcatcatctg gctggcattg ttgccatct tctatgtcac ctcagtgac tacgggtac agaccacac catgtgctg tcagtcagcc tcagcggctc cgtggtgctt ggtgctctt ttgcgccc aa gctgcacatc atcctcttc agccgcagaa gaacgtggtt agccacggg caccacacg cgcctttggc agtgcgtg ccagggccag ctcagcctt ggccaagggt ctggctccca gtttgctccc actgtttgca atggccgtga ggtggtggac tgcacaaagt catcgcttg a 173	3095	Metabotropic NM_000840 Glutamate Receptor 3	MGSLALIAL LPLWGAAG PAKKVLTEG DLVLGLFPV HQKGPAEDC GPVNEHRGIQ P RLEAMFALD RINRDHLLP GVRLGAHLD SCSKTHALE QALDFVRASL SRGADGSRHI CPDGSYATHG DAPTAITGVI GGSYSVSIQ VANLLRLFQI PQISYASTSA KLSDKSRYDY FARTVPPDEF OAKAMAEILR FFNTYVSTE ASEG DYGETG IEAFELEARA RNICVATSEK VGRAMSRAAF EGVVRALIQLK PSARVAVLFT RSEDARELLA ASQRLNASFT WVASDGMGAL ESVAVGSEGA AEGAITIELA SYPISDFASY FQSLDPWNS RNPWFREFWE QRFRCFRQR DCAHSLRAV PFEQESKIME VNAVYAMAH ALHNMHRALC PNTRLCDAM RPVNGRRLYK DFVLNVKEDA PFRPADTHNE VRDFRFGDI GRYNIFTYLR AGSGRYRYQK VGYWAEGLTL DTSLIPWASP SAGPLAASRC SEPCLQNEVK SVQPGEVCCW LCIPCPYFY RLDEFTCADC GLGYWPNASL TGCFLPQEX IRWGDWAVG PVTIACLGAL ATFLVLGVFV RHNATPVVKA SGREL CYILL GGVFLCYCMT FIFIAPKSTA VCTLRLGLG TAFSVCYSAL LTKTNRIARI FGGAREGAQR PRFISPASQV AICLALISQV LLIVAWLVV EAPGTGKETA PERREVTILR CNHRDASMLG SLAYNVLLIA LCTLYAFNTR KCPENEFNEAK FIGHTMYTTC IIWLALLPIF YVTSDDYRVQ TTTMCVSVSL SGSVLGLCLF APKLHIILFQ PQKNVWSHRA PLSRFGSAAA RASSSLGQGS GSQFVPTVCN GREVDSTTS SL ctttgtgtc ggtatgagag gaccaacct gagccagagc ccgggtgag gctcaccgccc A gccgctgcca ccgctgtag ctcagttcc tggcaggagt tgcggtgag aggaattttg tgacaggctc tgttagtctg ttcctcctt attgaagga caggccaaa atccagtttg gaaatgagag aggactagca tgacacattg gctccacct tgatatctcc cagaggtaca	Homo sapiens	Homo sapiens
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174	3095	Metabotropic NP_000831.1 Glutamate Receptor 3	<p>tggttggttg caccacaagt tcacatcatc ctgtttcaac ccagaagaa tggtgtcaca cacagactgc acctcaacag gttcagtgtc agtgaactg ggaccacata ctctcagttcc tctgcaagca cgtatgtgcc aacggtgtgc aatgggaggg aagtccctga ctcaccacc tcatctctgt gattgtgaat tgagttcag tctgtgtgt tttagactgt tagacaaaag tgctcacgtg cagctccaga atgtggaac agagcccta gtaacctttt ttagaaaacag tacgataaat tatttttgag gactgtatat agcatgtgc tagaactttc taggctgagt ctagtgtccc tattattaac aattccccca gaacatggaa taaccattg tttacagagc tgagcattgg tgacagggtc tgacatggtc agtctactaa aaaaacaaa aaaaaacaa aaaaaaaa acaaaagaaa aaaaataaaa tacggtggca atattatgta accttttttc ctatgaagtt tttgttaggt cctgtgtgta actaatttag gatgagtttc tatgttgat attaaagtta cattatgtgt aacagattga tttctcagc aaaaaataaa aagcatctgt attaatgtaa agatactgag aataaacct tcaaggtttt</p>	Homo sapiens
175	3096	Metabotropic NM_000841 Glutamate Receptor 4	<p>DRGIQRLEAM LFAIDEINKD ALFSKGFLLS LGDHNFLRRE IKIEDGLVLG GLFPINEKGT GTEECGRINE P AEYMCPCDGSY AIQENIPLLI AGVIGGSYSS VSIQVANLLR LFOIQPISYA STSAKLSDKS RYDYFARTVP PDFYQAKAMA EILRFNWTY VSTVASEGDY GETGIEAFEQ EARLNICIA TAEKVGRSNI RKSYSVIRE LIQKPNARVV VLFMRSDDSR ELIAAASRAN ASFTWVASDG WGAQESIIGK SEHVAYGAI TLELASQPVRO FDRYFQSLNP YNNHRNPWFR DFWEQKFQCS LQNRNHRRV CDKHLAIDSS NYEQESKIME VVNAYTAMAH ALHKNQRTLC PNTTKLCDAM KILDGKKLYK DYLLKINF TA PFENKADADS IVKEDYFGDG MGRYNVFNQ NVGGKYSYLK VGHWAETLSL DVNSIHSRN SVPTSQSDP CAPNEMKNMQ PGDVCCWICI PCEPYEYLAD EFTCMDCGSG QWPADLTGC YDLPEDYIRW EDAWAIGPVT IACLGFMCTC MVTVFIRHN NTPLVKASGR ELCYILLFV GLSYCMTFFF IAKSPVICA LRRGLGSSF AICYSALLTK TNCIARIFDG VNKAQRPKF ISPSQVFIC LGLILVQIVM VSVWLILEAP GTRRYTLAEK RETVILKCNV KDSSMLISLT YDVIILVILCT VYAFKTRKCP ENFNEAKFIG FTYTTTCIIW LAFLPIFYVT SSDYRVQTTT MCISVSLSGF VVLGCLFAPK VHIIIFQPQK NVVTHRLHLN RFSVSGTGTT YSQSSASTYV PTVCNGREVL DSTTSSL</p>	Homo sapiens
175	3096	Metabotropic NM_000841 Glutamate Receptor 4	<p>ccagagtaca agaggtggg agaggttagc agcatggggt acgcggttg ctcgccctcag A tccccctgct gctgaagctg cctgtcccat gcccaccag gccgtggggc caggggctg ccagggctag gagtgggctt gccgttcag ggtcttagg gattccgag atgcctggga agagaggctt gggctgggtg tgggcccgcc ccaaaaggcca cctccatg aattccatcc gccctggat gccctcctcc ctgggaagc tggtccggt gcatggccgg ggctcagagg gcatagatgg ggacatcaca ctgggagggc ttgtccggt agggctgcca ccgctggag gccatgctgt gcaagccctg tggagaactt aagaaggaaa agggctgcca ccgctggag gccatgctgt tcgcccctga tcgcatcaac aacgaccgg acctgctgcc taacatcacg ctgggccc gcattctgga cacctgctcc agggacccc atgcccctga gcagtcgtg acctttgtgc aggcgctcat cgagaaggat ggacagagg tccgctgtgg cagtgggcgc caccatca tcaccaagcc tgaacgtgtg gtgggtgtca tcggtgtctc agggagctcg gtctccatca tggtggccaa catccttcgc ctctcaaga taccacagat cagctacgcc tccacagggc cagacctgag tgacaacagc cgctacgact tcttctccc cgtgggtgccc tcggacacgt accaggccca ggccatgggtg gacatgctcc gtgccctcaa gtggaactat gtgtccacag</p>	Homo sapiens

tggcctcgga gggcagctat ggtgagagcg gtgtggaggg cttcatccag aagtcctgtg
aggacggggg cgtgtgcatc gccagtcgg tgaagatacc acgggagccc aaggcaggcg
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ccttcaatga gaatggagat ggccttgggc cctatgacat ctaccaatc cagctgcga
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cttgcacagg gtaccagtac caggtggacc gctacacctg taagacgtgt ccttatgaca
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gtcgcacctg ggccgtgtgt cccctctcc tggcctgtgt gggcatcgct gccacgttgt
tcgtgtgtgat cacctttgtg cgctacaacg acacgcccat cgtcaaggcc tcgggcccgtg
aactgagcta cgtgtgtgt gcaggcatct tccgtgtcta tggccaccac ttccctcatga
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agcgtgacc ctgtggaagg tgcgtcgggc caggccaca ccaagggcc cagctgtctt
gcctgcccgt gggaaccac ggacgtggct tgggtctgag gatagcagag cccccagca
tcaactgtgg cagcctgggc aaaccgggtg agcaacagga ggacgaggg ccggggcggt
gccaggctac cacaagaacc tgcgtcttgg accattgcc ctcgccgcc caaacacag
gggtcagggt cgtgtgggccc ccagtgtgag atctctcct cctctcgtct ctgtctgtgc
tgtggcgac ccctctgtct gtctccagcc ctgtctttct gtctcttat ctcttgttt

176	3096	Metabotropic NP_000832.1 Glutamate Receptor 4	<p>caacttttcc cttcttgccg tcccggcggtg cttgtactct tggccttttc tgtgtctcct tcttggtctt tgcctccgcc tctctctctc atcctctttg tccctagctc ctcctgcttt cttgggtccc accagtgtca cttttctgcc gttttctttc ctgttctcct ctgcttcatt ctcgtccagc cattgctccc cttccctgc caccctccc cagttcacca aaccttacct gttgcaaaaag aaaaaaaag aaaaaaatc aaaaacaaaa aaagccaaaa cgaaaaaaaa tctcgagtggt gttgccaagt gctgcgtcct cctggtggcc tctgtgtgtg tccctgtggc ccgcagcctg ccgcctgcc ccgccatct cccgtgtgtc ttgcccgctt gccccgccgc tctgcgtct gtcttgcccg cctgcccgcc tgcctctcct gccgaccaca cggagttcag tgcctgggtg tttggtgatg gttattgacg acaatgtgta gcgcagtatt gtttttatac caagaacatt tctaataaaa ataaacacat ggttttgcaa aaaa</p> <p>MPGKRGGLGW WARLPLCLLL SLYGWPMPSS LGPKKGPHM NSIRIDGIT LGGLFPVHGR P GSEGRPCGEL KKEKGIHRLE AMLFALDRIN NDPDLPNIT LGARILDTCR RDTHALEQSL TFVQALIEKD GTEVRCGSGG PPIITKPERV VGVIGASGSS VSTVASEGSY GESGVEAFIQ STAPDLSNS RYDFFSRVP SDTYQAQAMV DIVRALKNY VSTVASEGSY GESGVEAFIQ KSREDGGVCI AQSVKIPREP KAGEFDKIR RLLETSNARA VIIIFANEDDI RRVLEAARRA NOTGHFWMG SDSWGSKIAP VLHLEVAEG AVTILPKRMS VRGFDYFSS RTLDNNRRNI WFAEFWEDNF HCKLSRHALK KGSVKKCTN RERIGQDSAY EQEGKVQFVI DAVYAMGHAL HAMHRDLCPG RVGLCPRMDP VDGTLQKLYI RNVNFSGIAG NPVTENEGD AGRYDIYQY QLRNSAEYK VIGSWTDHLH LRIERHWPQ SGQCPGRK SLPCQPGERK KTVKGMPCW HCEPTGYQY QVDRYCTKC PYDMRPTENR TGCRRPIIK LEWGSPPAVL PLFLAVVGIA ATLFVITFV RYNDTPIVKA SGRLESYVLL AGIFLCVATT FLMIAPDLG TCSLRRIFLG LGMSISYAAL LTKTNRIYRI FEQGRKRSVA PRFISPASQL AITFSLISLQ LLGICVWFVV DPHSVVDFO DQRLDPRFA RGVLCDISD LSLICLLGYS MLLMVTCTVY AIKTRGVPEI FNEAKPIGFT MYTTCIVWLA FIPIFFGTSQ SADKLYIQTT TLTVSVLSLA SVSLGMLYMP KVYIILFHE QNVPKRKRL KAVVTAATMS NKFTQKGNR PNGEAKSELG ENLEAPALAT KQYVYTYTNH AI</p>	Homo sapiens
177	3097	Metabotropic NM_000842 Glutamate Receptor 5	<p>acaaaatggt cctttagaaa atacatctga attgctggct aatttcttga tttgcgactc A aacgtaggag atcgcttggt cgtagctatc agaaccctcc tgaattttcc ccaccatgct atcctttattg gcttgaaact ctttcctaaa atggtccttc tgttgatcct gtcagtctta ctttgaaaag aagatgtccg tgggagtga cagtccagt agaggagggt ggtggctcac atgccgggtg acatcattat tggagctctc ttttctgttc atcaccagcc tactgtggac aaagtctatg agaggaaagt tggggcggtc cgtgaacagt atggcattca gagagtggag gccatgctgc ataccctgga aaggatcaat tcagaccoca cactcttgc caacatcaca ctgggctgtg agataaggga ctcctgctgg cattcggtg tggccctaga gcagagcatt gagttcataa gagattccct cattcttca gaagagaag aggccttggt acgctgtgtg gatggctcct cctctcctt ccgctccaaag aagccctag taggggtcat tggccctggc tccagttctg tagccattca ggtccagaat tggctccagc ttttcaacat acctcagatt gcttactcag caaccagcat ggatctgagt gacaaagctc tgttcaataa tttcatgagg gttgtgcctt cagatgctca gcaggcaagg gccatggtgg acatagttaa gaggtacaac tggacctatg tatcagcctg gcacacagaa ggcaactatg gagaaagtgg gatggagcc ttcaaaagata tgtcagcgaa ggaagggtt tgcctcgccc actcttcaaa aatctacagt</p>	Homo sapiens

aatgcagggg agcagagctt tgataagctg ctgaagaagc tcacaagtca cttgcccagg
gccgggtgg tggcctgctt ctgtagggc atgacgtga gaggtctgct gatggccatg
aggcgcctgg gtctagcggg agaattcttg cttctgggca gtgatggctg ggctgacagg
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tctcccgatg tcaagtgggt tgatgattat tatctgaagc tccggccaga acaaaaccac
cgaaacccctt ggtttcaaga atttggcag catcgttttc agtccgact gaaagggttt
ccacaggaga acagcaaaata caacaagact tgcaatagtt cctgactct gaaaacacat
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acagtggccc taggtgcat gtttgtccg aaggttaca tcatcctggc caaacagag
agaaacgtgc gcagcgctt caccacatct accgtgtgc gcatgcatgt aggggatggc
aagtcatcct ccgcagccag cagatccagc agcctagtca acctgtgaa gagaaggggc
tctcttgggg aaacctaa tccaatgga aaatcgtca cgtgggcccc gaatgagaa
agcagccggg ggcagacat gtggcagcgc ctgtccatcc acatcaaaa gaaagaaaa
cccaacaaa cggcgtcat caagccttc cccaagcga cggagagccg tggcctgggc
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agcacgctga gccacgcgc gggctcggcc agccgacgg acgacgatgt gccgtcgtg
cactcggagc ctgtggcgcg cagcagctcc tcgcagggt cctcatgga gcagatcagc
agtgtggtca cccgcttcac ggccaacatc agcagatca actccatgat gctgtccacc
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178	3097	Metabotropic NP_000833.1 Glutamate Receptor 5	atccagttgc ccacgacat gagacacatt gccgaatcc agcctctgcc ggccatcgaa gtcacgggcy gcgcgcagcc gcgcgcaggg gcgcgcagcc ctggggagcg ggccccggag agccccggc cgggtcccg agctgcggcc gccaaagccag acctggagga gctgggtgct ctcacccgc cgtccccctt cagagactcg gtggactcgg ggagcacac ccccaactcg ccagtgtccg agtcggccct ctgtatccg tcgtctccca aatagcac tcttatcata agagattaca ctgagagtc ctgctgctg tgaatctcc tggaaagcac gccggcctgc gcgtgcggag cggagcccc cgtgttcaca cacacacat ggcaagcata gtcgcctggt tacggcccg ggggaatatg ccaaggacc ccttaatgga aacacagatc agtagtgcta tctcatgaca accacaagaa accgacgaca aatcttttgc gagattttct tctagtggct tagaaacatg gcttttaaga aacacgggtga tatctttgag ggtgacaagg cgtctctca aacagtcca taccactgc ttgtctctag ggaagcagtg cgtgtgaaac agcgtaacgg agggtgaaga gcatagttaa taagcaactg taaaagttt tattgttta ctttaattct ttccctctgt aaaaagttt attgtttac tttaattct tcccagaaa agagtctttg attcaccaaa catgaatgta ctttttctaa caaactcaaa atctgggacc aaacatcaa cttttttct tctttttct tctttttgt ttttcttct ctgtaaaagc cttgaaaaga ccttgaaaag cagtaacttg ggtccagat ttacggaggc gttgtgaatg tgtcccatgc ataacacact actggtatgt gagtcgtcg ctaatgtact acgtagggt tctaccagag atttctctc ccaattgggt tgtgaaatac tcttccaaaa gcctgcatcg gggattccac ctactattt cagattcacc tccattaacc aagaaaacca gtggaagatt tcttgactat ttcaccatgt tgcaatc	QSSERRVVAH MPDIIIGAL FSVHQPTVD KVHERKCGAV P REQYGIQVVE AMLHTVRGIN SDPTLLPNIT LGCEIRDSCW HSAVALEQSI EFIRDSLSS EEEEGLVRCV DGSSSSFRSK KPIGVIGPG SSSVAIQVN LIQLFNIPQI AYSATSMDSL DKTLFKYFMR VVPSDAQOAR AMVDIVKRYN WTYVSAVHTE GNYGESGMEA FKDMSAKEGI CIAHSYKIYS NAGEQSFDKL LKLTSHLPK ARVACFCEG MTRVGLLMAM RRLGLAGEFL LLGSDGWADR YDVTGYQRE AVGGITIKLQ SPDVKWFDDY YLKLRPETNH RNPWFQEFWQ HRFQCRLEGF PQENSKYNKT CNSSLTLKTH HVQDSKMGFV INAIYSMAYG LHNMQMSLCP GYAGLCDAMK PIDGRKLLES LMKTNFTGVS DTLFEDENG DSPGRYEIMN FKEMGKDYFD YINVGSDNG ELKMDDDDEV SKKSNIIRSV CSEPECKGQI KVIKGEVSC CWTCTPCKEN EYVFDEYTK ACQLGSWPTD DLTGCDLIPV QYLRWGDPEP IAAWVFACLG LIATLFVTVV FIIYRTPVW KSSSRELCYI ILAGICLGYL CTFCLIAKPK QIYCYLQRIQ IGLSPAMSYS ALVTKTNRIA RILAGSKKKI CTKKPREMSA CAQLVIAFIL ICIOGLIIVA LFIMEPPDIM HDYPSIREVY LICNTTNLGV VTPGLYNGLL ILSCTFYAFK TRNVSPANFNE AKYIAFTMYT TCIIWLAFVP IYFGSNYKII TMCFSVLSA TVALGCMFVP KVIILAKPE RNVRSFTTS TVVRMHVGDG KSSSAASRSS SLVNLWKRRG SSGETLSSNG KSVTWAQNEK SSRGQHLWQR LSIHINKKEN PNQTAVIKPF PKSTESRGLG AGAGAGGSAG GVGATGGAGC AGAGPGGPES PDAGPKALYD VAAEEHFPA PARPRSPPI STLSHRAGSA SRTDDDVPSL HSEPVARSSS SQGSLMEQIS SVVTRFTANI SELNSMMLST AAPSPGVGAP ICSSYLIPKE IQLPTMTTFE AEIQPLPAIE VTGGAQPAAG AQAAGDAARE SPAAGPEAAA AKPDLEELVA LTPPSPFRRS VDSGSTTPNS PVSEALCIP SSPKYDTLII RDTYQSSSSL	Homo sapiens
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179	3098	Metabotropic Glutamate Receptor 6	NM_000843	179	3098	Metabotropic Glutamate Receptor 6	Homo sapiens
							A
							gagcgccttc tcccagggcgg ggcagggccgg ctgaggtaac tcccagagc caaagtggaa ggcgcgcccc
							gagcgccttc tcccagggcgg ggcagggccgg ctgaggtaac tcccagagc caaagtggaa ggcgcgcccc
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							cgcaggccat ggtggacatc gtgagggcac tgggatggaa ctatgtgtcc acgtggcct
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							atgaggatga catcaggcg gtctggagg cagctcgcca ggcacactg accggccact
							tcctgtgggt cggctcagac agctggggag ccaagacctc accatcttg agcctggagg
							acgtggcctg tggggccatc accatctgc ccaaaagggc cctccagac ggatttgacc
							agtaattcat gactcgatcc ctggagaaca accgcaggaa catctgttcc gccgagttct
							gggaagagaa ttttaactgc aaactgacca gctcagttac ccagtcaagt gattccaccc
							gcaaatgcac aggcaggaa cgcacggcc gggactccac ctaccagc atgcaccagg
							tgcagtttgt gattgatgc gtgtatgcca ttgccacgc cctccagc atgcaccagg
							cgtctgccc tgggcacaca ggcctgtgccc cggcgatgga accaccgat ggcgggatgc
							ttctgcagta cattcgagct gtccgcttca acggcagcgc aggaacccct gtgatgtca
							acgagaacgg gcatgcgcc gggcggtacg acatcttca gtaccaggc accaatggca
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							tggaggccct gcagtgtct ggcgacccc acgagtgccc ctcgtctctg tgcagcctgc
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181.	3099	Metabotropic NM_000844 Glutamate Receptor 7	<p> tgggcctctc tggcaggaac tctgatgcac cgcgaggccc atgtactctc gtggctttct cacattcggt ctacttgcaag ggatctccca cagcatgcac cattctgggt acagggggac atcctctggt actgaagatg ttgtcatatt tagtaccttc acaagtttcc tctccttcca gaattttctg atgtacacaa ataatgact tccacaagag ggcttttcca cactcgggtg gtgcatacag ttctgcctg tgatcatttc tttttattt tttttattt ttcgagata gggtcttgct caatttctta ggctggagt cagtggcag atcatagctc actgaagttt cgacctgggc tcaagcaatc ctcccgcttc agcctcctga gtactgggtg cgcacgacca taccagcta atgtttatt tttttagag acgaggtctc actatgttc cagggctggt ctcgaacttc tgagctcgag cgatcctct gcctccact cccaaagtgt tcggattaca aacgtgagcc atcgaccta gcctcttga tcatttctg ggtgttcagt gggggttgac agctccctaa agattttctt gttttttgc atgcatgggt ttgaattctt tgaggttccaa tttatttga cccctgaata agttttgtg ggtttcttc tatgtgtgga attatatgg catttcttga ccttgaatt atctgtatga attatatgtt gacctgcacc gaagtttctg ggttgaggc ttattccatg ttacacaa taaaatttga gtttctct ctgggatgag agctctaaag cagagtaaga ttacttctg atgtaagct taaccacct tttataaggt ctcacctggt gtccactggt ttgagacttc tacagaagag cttctgtata gtaaccattt tcttaggctg tctcactgt gtgaattctc tgacacattt attatagctt tgtccattt cttatcctt ttgtcttcta gaaatttccc ttaatttat tacattcatt gcttactga aagagtccag gtaactgact ttaattcaag ttacttctg ttaataaat ttaacttttc cc </p>	Homo sapiens

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182	3099	Metabotropic NP_000835.1 Glutamate Receptor 7	tactgtgtat gccatcaaga ctcggtgtgt acccgaagt tttaacgaag ccaagcccat tggttcaact atgtacacga catgtatagt atggcttgcc ttcatccaa tttttttggg cacgcctcaa tcagcggaag agctctacat acaaatacc acgttacaac tctccatgaa cctaagtga tcagtggcgc tggggatgct atacatgccg aagtggtaca tcatcatatt ccaccctgaa ctcaatgtcc agaaacgaa gcgaagtctc aagcggttag tcacagcagc caccatgtca tcgaggtgtg cacacaacc cagtgacaga ccaacgggtg aggcaaaagc cgagctctgt gaaaacgtag acccaaacg ccctgctgca aaaaagaagt atgtcagttc taataacctg gttatctaac ctgttccatt ccatggaacc atggaggagg aagacctca gttattttgt cacccaact ggcataggac tctttgttcc taccgcttc ccatcacgg aggagcttcc ccggccggga gaccagtgtt agaggatcca agcgacctaa acagtgtctt tatgaatat ccttacttta tctgggctta ataagtcaat gacatcagca ctgccaaact ggctgcaatt gtggaccttc cctaccaaag ggagtgttga aactcaagtc ccgccccggc tctttagaat ggaccactga gagccacagg accgttttgg ggctgacctg tcttattacg tatgtacttc tagtttgcaa ggttttgaaa ttttctgtac agttgtgag gacctttgca ctttgccatc tgatgtcgtg cctcggttca ctgtttgttt tcgaatgcct tgttttcata gagccctatt ctctcagacg gtggaatatt tggaaaaatt taaaaacaat taaaatttta aagcaatctt ggcagactaa acaagtaca tctgtacatg actgtataat tacgattata gtaccactgc acatcatgtt tttttttttt aagacaaaaa agatgtttta agacaaaaa ctgtgctgag aaagtatgcc ccacctatct ttggtatatg ataggttaca taaaagggaag gtattggctg aactgaatag aggtcttgat ctttggaaat catgccagta atgtatttta cagtacatgt ttattatgtt caatatgtgt acttgggttc tcttttgta tttttaatta gggtatatga atatttgca ataattttaa taattattaa gctgtttgaa ggaagaata tggtattttc atgtcttgag gttttgttca tggccctttt gactgatcag tgtgataagg actttaggaa aaaaagcatg tatgtttttt actgttttga ataatgtact tctgtaactc tgctgcttat gtgccaattt agtggaaaaa acaacacctt gctgaaaaat tccctctttc cattctcttt caattctgtg atattgtcca agaattgtat aataaggaaat tc MVQLRKLRLV LTLMKFPCCV LEVLLCALAA AARGQEMYAP HSIRIEGDTV LGGLFPVHAK P GPSGVPCGDI KRENGIHRLE AMLYALDQIN SDNLLPNVT LGARILDTCs RDTYALEQSL TFVQALIQKD TSDVRCNGE PPVFKPEKV PDSFQAQAMV DIVKALGWNY VSTLASEGSY GEKGVESFTQ STAPELSDDR RYDFFSRVVP PDSFQAQAMV DIVKALGWNY VSTLASEGSY GEKGVESFTQ ISKEAGGLCI AQSVRIPOER KDRTIDFRI IKQLDTPNS RAVVIFANDE DIKQILAAAK RADQVGHFLW VGSWSGSKI NPLHQHEDIA EGATIQPKR ATVEGFDAYF TSRTLENNRR NWFAEYWEH NFNCKLTISG SKKEDTRKC TGQERIGKDS NYEQEGKVQF VIDAVYAMAH ALHHMNKDLG ADYRGVCPDM EQAGGKKLLK YIRNVNENGs AGTPVMFNKN GDAPGRYDIF QYQTTNSNP GYRLIGWTD ELQNLNEDMQ WKGKLPCKPG SVCTLPCKPG QRKKTQKGT CCWTCEPCDG YQYQFDEMT C QHCPYDQPN ENRTGCQDIP IIKLEWHSPW AVIPVFLAML GIIATIFVMA TFIRYNDTPI VRASGRELSY VLLTGIFLCY IITFLMIAPK DVAVCSFRRV FLGLGMCISY AALLTKTNRI YRIFEQKKKS VTAPRLISPT SQLAITSSLI SVQLLGVFIW FGVDPNNII DYDEHKTWNP EQARGVLKCD ITDLQIICSL GYSILLMVTCT TVYAIKTRGV PENFNEAKPI GFTMYTTCIV WLAFIPIFFG TAQSAEKLYI QTTLTISMN LSASVALGML YMPKVYIIIF HPENLVQKRK RSFKAVVTAA TMSSRLSHKP SDRPNGEAKT ELCENVDPNS	Homo sapiens
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183	3100	Metabotropic Glutamate Receptor 8	PAKKKYVSY>NNLVI	Homo sapiens
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184	3100	Metabotropic NP_000836.1 Glutamate Receptor 8	acttgactg tttatgcaa taaacgaga ggtgtccag agacttcaa tgaagccaaa cctattgat ttaccatgta taccacctgc atcatttgggt tagctttcat ccccatcttt tttggtagc ccagtcagc agaaaagatg tacatccaga caacaacact tactgtctcc atgagtttaa gtgcttcagt atctctggc atgctctata tgcccaaggt ttattattata attttcatc cagaaagaa tgttcaaaa cgcaagga gcttcaaggc tgtgtgaca gctgccacca tgcaagcaa actgatccaa aaaggaatg acagaccaaa tggcgaggtg aaaagtgaac tctgtgagag tcttgaacc aacacttctt ctaccaagac acatatatc agttacagca atcatcaat ctgaacagg gaaatggac aatctgaaga gacgtgggat atgatcttaa atgatgaaca tgagaccga aaaattcact cctggagatc tccgtagact acaatcaatc aaatcaatag tcagtcttgt aaggaacaaa aattagccat gagccaaaag tatcaataaa cggggagtga agaaacccgt tttatacaat aaacccaatg agtgtcaagc taaagtattg cttattcatg agcagttaaa acaaatcaca aaaggaaaac taatgttagc tcgtgaaaaa aatgctgttg aaataataa tgtctgagt tattcttgt ttttctgtg attgtgagaa ctcccgctcc tgctccacat tgtttaactt gtataagaca atgagtcctg ttctgtgaat ggctgaccag attgaagccc tgggtgtgac taaaaataaa tgcaatgatt gatgcagca atttttata caataaattt atttctaata ataaaggaat gtttgcgaaa aaaaaaaaa aaaaactcga 9	Homo sapiens
185	3212	Op10d mu- type Receptor	ggaattccgg ctataggcag aggagaatgt cagatgctca gctcggctcc ctccgctga A cgctcctctc tgtctcagcc aggaactggt tctgtgaagaa acagcaggag ctgtggcagc ggcgaaaagga agcggctgag gcgcttgaa cccgaaaagt ctcggtgctc ctggctacct cgcaacagcg tgcccgcccg gccgtcagta ccatggacag cagcgtgccc cccacgaacg ccagcaattg cactgatgccc ttggcgctact caagtgtctc cccagcacc agccccggtt cctgggtcaa cttgtcccaac ttagatggca acctgtcga cccatgcgt ccgaaccgca ccaacctggg cgggagagac agcctgtgccc ctccgaccgg cagtccctcc atgatcacgg ccatcacgat catggccctc tactccatcg tgtgcgtggt ggggctcttc ggaacttcc	Homo sapiens

186	3212	Opioid mu- type Receptor	NP_000905.1	MDSSAAPTNA SNCTDALAYS SCSPAPSPGS WVNLSHLDGN LSDPCGNRT NLGGRDSLCP P	Homo sapiens
tc					
187	3223	Muscarinic acetylcholin e Receptor M1	NM_000738	PTCSPSMITA ITIMALYSIV CVVGLFGNFI VMYVIVRYTK MKTATNIYIF NLALADALAT STLRFQSVNY LMGTWPFGTI LCKIVISIDY YNMFTSIFTL CTMSVDRVIA VCHPVKALDF RTPRNAKIIN VCNWIISSAI GLPVMFMATT KYRQGSIDCT LTFSHPTWYW ENLVKICVFI FAFIMPLVII TVCYGLMILR LKSVRMLSGS KERDNLIRI TRMLVVVAV FIVCWTPHI YVILKALVTI PETTFQTVSW HFCIALGYTN SCLNPVIYAF LDENFKRCFR EFCIPTSSNI EQONSTRIRQ NTRDHPSTAN TVDRNQHLE NLEAETAPLP atgaacactt cagccccacc tgcgtcagc cccaaatca ccgctctggc accaggaag A ggtccctggc aagtggcctt cattggatc accacgggc tctgtcgct agccacagt acaggcaacc tgcgtgtact catctcttc aaggtcaaca cggagctcaa gacagtcaat aactacttcc tgcgtgacct ggcctgtgct gacctatca ctgggtacct ctccatgaac ctctatacca cgtacctgct catggggccac tgggctcttg gcacgtctggc ttgtgacctc	Homo sapiens

188	3223	Muscarinic acetylcholin e Receptor M1	NP_000729.1	<p>tga</p> <p>NYFLSLACA DLIIGTFSMN LYTTYILMGH WALGTLACDL WLALDYVASN ASVMNLLILS FDYFVSVTRP LSVRAKRTPR RAALMIGLAW LVSFYLWAPA ILFWQYLVGE RTMLAGQCYI QFLSQPIITE GTAAAFYLP VTVMCTLYWR IYRETNRAR ELAALQGSSET PGKGGGSSSS SERSQPGAEG SPETPPGRCC RCCRAPRLQ AYSWKEEEEE DEGSMSLTS SEGEERPSEV VIKPMVMDPE AQAPTQPPR SSPNTVKRPT KKGDRDRAKKG QKPRGKEQLA KRKTFSLVKE KKAARTLSAI LLAFILTWP YNIMVLVSTF CKDCVPETLM ELGYWLCYVN STINPMCYAL CNKAFRDTFR LLLLCRWDR RWRKIPKRP SVHRTPSRQC</p>	Homo sapiens
189	3224	Muscarinic acetylcholin e Receptor M2	NM_000739	<p>atgaataaact caacaaactc ctctaaact agcctggctc ttacaagtcc ttataagaca A tttgaagtgg tgtttattgt cctggtggct ggatccctca gtttgggtgac cattatcggg aacatccctag tcatggttc cattaaagtc aaccgccacc tccagaccgt caacaattac tttttattca gcttggcctg tgtgacctt atcataggtg ttttctccat gaacttgtac acctctaca ctgtgattgg ttactggcct ttgggacctg tgggtgtgta cctttggcta gcctggact atgtggtcag caatgcctca gttatgaatc tgctcatcat cagctttgac aggtacttct gtgtcacaaa acctgtgacc taccagtca agcggaccac aaaaatggca ggtatgatga ttgcagctgc ctgggtcctc tctttcctcc cctgggctcc agccattctc ttctggcagt tcattgtagg ggtgagaact gtggaggatg gggagtgtcta cattcagttt ttttccaatg ctgtgtgcac ctttgggtacg gctatgacg ccttctattt gccagtgtac atcatgactg tgtatatattg gcacatatcc cgagccagca agagcaggat aaagaaggag aagaaggagc ctgttgccaa ccaagacccc gtttctccaa gtctgttaca aggaaggata gtgaagccaa acaataacaa catgcccagc agtgacgatg gcctggagca caacaaaatc cagaatggca aagccccag ggtacctgtg actgaaaact gtgttcaggg agaggagaag</p>	Homo sapiens

190	3224	Muscarinic acetylcholin e Receptor M2	NP_000730.1	<p>gagagctcca atgactccac ctcaatcagct gctgttgccct ctaatatgag agatgatgaa ataaaccagg atgaatacac agtttccact tccctgggcc attcaaaaga tgagaactct aagcaaacat gcatcagaat tggcaccag acccaaaa gtgactcatg taccacaact aataccaccg tggaggtagt ggggtcttca ggtcagaatg gagatgaaaa gcagaatatt gtagcccgca agattgtgaa gatgactaag cagcttgcaa aaaagaagcc tcctccttcc cggaagaaaga aagtcaccag gacaattctg gctattctgt tggctttcat ccatcttgg gccccataca atgtcatggt gctcattaac acctttttgt cactttgcat ccccaacat gtgtggacaa ttggttactg gctttgttac atcaacagca ctatcaaccc tgcctgctat gcaatttga atgcacactt caagaagacc tttaaacacc ttctcatgtg tcattataag aacataggcg ctacaagta a</p>	Homo sapiens
191	3226	Muscarinic acetylcholin e Receptor M4	LG1143	<p>FEVVFIVLVA GSLSLVTIIG NILVMYSIKV NRHLQTVNNY P FLFSLACADL IIGVFSMNLV TLYTVIGWLP LGPVVCDLWL ALDYYVSNAS VMNLLIISFD RYFCVTKPLT YPVKRTTKMA GMMIAAAWVL SFILWAPAIL FWQFIVGVRT VEDGECYIQF FSNAAVTFGT AIAAFYLPVI IMTVLYWHIS RASKSRIKKD KKEPVANQDP VPSLVQGRV VKPNNNMPS SDDGLEHNI QNGKAPRDPV TENCVQGEK ESSNDSTSVS AVASNMRRDE ITQDENTVST SLGHSKDENS KQTCIRIGTK TPKSDSCTPT NTTVEVVGSS GQNGDEKQNI VARKIVMTK QPAKKKPPPS REKKVTRTIL AILAFIITW APYNNVMVLIN TFCAPCIPNT VWTIGYWLKY INSTINPACY ALGNATEFKT FKHLMLCHYK NIGATR CCTGGCAGTG CCGATGTTC GATACTGGCA CAGCAGCAGG TGCCGGAAGG TCCTTTTAAA A GGTGGCGTTG CACAGAGCAT AGCAGGAGG GTTGATGGTG CTGTTGACGT AGCAGAGCCA GTAGCCCAATG GACCACACCG GGTACAGGAT CAGAGCTCTGG CAGAAGGTGT TCACCAGGAC CATGACGTTG TGAGCGCTCC CGGTGAGGAT GAAAGCTAAC ANAATGGCAA AGATCGGTGG TGGCATTTG CGCTCCCGG CCGCATCTG CCGTCTCTTG CGCACCTGGG TGCGAGCGAT GCTAGCGAAC TTGCGGGCCA CGTTGGCCCG AGGCGCATGC CAGNCGCGGT GGGAGGGACA ATCTCAGGCG TGCCACACAC TCATGGGCTG GCTGGGCTTG TCAAAATTTG GATCTTGGAC CATCTGGGAG GCTTGGTTGA AGGCCCCCGG CTCGGACTTG CGGGCATGAA TCCAGGGCCTT ACTCTANAGG ATCCCCCCT CTC</p>	Homo sapiens
192	3226	Muscarinic acetylcholin e Receptor M4	NM_000741	<p>atggccaact tcaacactgt caatggcagc tgggcaatc agtccgtgcy cctggtcacg A tcatcatccc acaatcgcta tgagacggtg gaaatggtct tcattgccac agtgacaggc tccttgagcc tggtgactgt cgtgggcaac atcctggtga tgctgtccat caaggtcaac aggcagctgc agacagtcaa caactacttc ctcttcagcc tggcgtgtgc tgatctcatc ataggcgccct tctccatgaa cctctacacc gtgtacatca tcaagggcta ctggccccg ggcgccgtgg tctcgacct gtggctggcc ctggactacg tggtaggcaa cgcctccgtc atgaaccttc tcatcatcag cttgaccgc tacttctgcg tcaccaagcc tctcacctac ctgccccggc gcaaccacaa gatggcagcc ctatgattg ctgctgacct ggtactgtcc ttcgtgctct gggcgctgc catctgttc tggcagttg tggtaggtaa gcggaaggtg cccgacaacc actgcttcat ccagtctctg tccaaccag cagtgaacct tggcaacagc attgctgctt tctacctgcc tgtgtgcatc atgacggtgc tgtacatcca catctccctg gccagtgcga gccgagtcca caagcaccgg cccgagggcc cgaagagaa gaaagccaa acgttgccct tctcaagag cccactaatg aagcagagc tcaagaagcc cgcgccggga ggcgccccgg gaggactgcg caatggcaag ctggagagg ccccccgcc agcgctgcca</p>	Homo sapiens

193	3226	Muscarinic acetylcholin e Receptor M4	NP_000732.1	<p>ccgccaccgc gccccgtggc tgataaggac. acttccaatg agtccagctc aggcagtgcc accagaaca ccaaggaacg cccagccaca gagctgtcca ccacagaggc caccactccc gccatgcccg cccctccct gcagccgcg gcctccaac cagctccag atggtccaag atccagattg tgacgaagca gacaggcaat gagtgtgtga cagccattga gattgtgcct gccacgcccg ctggcatgcg cctcgggcc aagctggccc gcaagttcgc cagcatcgct cgcaaccagg tgcgcaagaa ggcgcagatg gcggcccggg agcgaagt gacacgaacg atctttgcca ttctgctagc ctctcatcct acctggacgc cctacaacgt catggtcctg gtgaacacct ttctgccagag ctgcacacct gacacggtgt ggtcattgg ctactggctc tgctacgtca acagcaccat caacctgcc tctatgctc tgtgcaacgc cactttaaa aagaccttc ggcacctgct gctgtgccag tctggaaca tcggcactgc cagtag tgcacacctt ggcacctgct gctgtgccag tctggaaca tcggcactgc cagtag</p>	Homo sapiens
194	3227	Muscarinic Acetylcholin e Receptor M5	NM_012125	<p>RLQQTNNYF LFSLACADLI IGAFSMNLYT VYIKGYWPL GAVVCDLWLA LDYVVSNASV MNLIIISFDR YECVTKPLTY PARRTKMAG LMTAAWVLS FVLWAPALIF WQFVVGKRTV PDNHCFIQFL SNPVTFTGA IAAFYLPVI MTVLIHISL ASRSRVHHR PEGPKEKKAK TLAFLKSPLM KQSVKKPRPG GRGGLRNGK LEEAPPALP PPRPVADKD TSNESSGSA TQNTKERPAT ELSTTEATTP AMPAPLQPR ALNPASRWSK IQIVTKQTGN ECVTAIEIVP ATPAGMRPAA NVARKFASIA RNQVRKKRQM AARERKVRT IFAILLAFIL TWTPYVMVL VNTFCQSCIP DTWISIGYWL CYVNSTINPA CYALCNATEFK KTFRHLLLCQ YRNIGTAR</p>	Homo sapiens

195	3227	Muscarinic Acetylcholin e Receptor M5	NP_036257.1	MEGSYHNAT LKTVMNYLL LLVTSFDYF DECQIQFLE KRKPAHRALE TTCSSYPSE YLLSPAAHR NPSHQMTKRK YWLCVNVSTV ctattgcagat gaggcagaga tccgggactg gggttgagg ccacgggggc cctcccttc acctcaccaa gtgtggtggt acaagcgcat ccatggccgc ttggcgccaa tctactccat ccagactgtc tacttgccct gttttgtgca tactggtgta ctctctgggg ccaaaagaaa tgccctatca acatccagca ccatcatcta gggtgccttt gtgtgccttt atccaaaccg ttgaccccaa accgaagttt tcataagctc agattagtg tgtccctatat	ctgtgacaa tagcactgtc gatgctgctt gacagcaag actgctgctt gagcagcaag TVNGTPVNHQ SLACDILIIG IFSNMLYTTY KRTPKRAGIM AFYIPVSVMT LAQRERNOAS WSSSRSTST TGKPSQATGP SANWAKAEQL TEKSDYDTPN ETEETFVKAE KEPSTKGLNP QETNNGCHKV KIMPCFPFVA CVPVTLWHLG FIITWTPYNI MLVSTFCDK EKLWQGNK LP LCRWKKKVE TERKTFKMLL tccagtcctt atctgaagac tcttggtgctg ctctccagc agcagaacc tggatagacg ctcgtagct gccggggcgg aacctctcct ccctggggcca gccctccag cctctgggccc gtctggtggt atctcgatc atcctggccc ctctggtgaa tctctgtgaa tcatctacgc gcttcacgc cacagctgtg ttcgccagca tattattgat ccttgaaac cgtactctct catgccagg atcgctatta gttggaatta gtatcatgag cagctaaagg atctgctggc agatggaaat atgtacaac gcttcaagag gcatttcgct accaggtttc acagtcgtg gagtcacccg atgtacacgc accaccaggt ccagtcggaa gaaaagagca acgccaagag tgccctccgc acttcaagtt ctgaggtaaa ttatcagtc cagctatggg caaattgaga	gacttgggc ctgcaacaga aaaagtggaa P Homo sapiens SLITIVGNVL VMISFKVNSQ P Homo sapiens LACDLWLALD YVASNASVMN YLWPKRTVPL QGSDSVTKAE SANWAKAEQL TEKSDYDTPN ETEETFVKAE KEPSTKGLNP QETNNGCHKV KIMPCFPFVA CVPVTLWHLG FIITWTPYNI MLVSTFCDK EKLWQGNK LP LCRWKKKVE TERKTFKMLL tccagtcctt atctgaagac tcttggtgctg ctctccagc agcagaacc tggatagacg ctcgtagct gccggggcgg aacctctcct ccctggggcca gccctccag cctctgggccc gtctggtggt atctcgatc atcctggccc ctctggtgaa tctctgtgaa tcatctacgc gcttcacgc cacagctgtg ttcgccagca tattattgat ccttgaaac cgtactctct catgccagg atcgctatta gttggaatta gtatcatgag cagctaaagg atctgctggc agatggaaat atgtacaac gcttcaagag gcatttcgct accaggtttc acagtcgtg gagtcacccg atgtacacgc accaccaggt ccagtcggaa gaaaagagca acgccaagag tgccctccgc acttcaagtt ctgaggtaaa ttatcagtc cagctatggg caaattgaga
196	3378	Tachykinin Receptor 3	NM_001059	RVVLVKERKA NPICVLCNR TFKTFKMLL tccagtcctt atctgaagac tcttggtgctg ctctccagc agcagaacc tggatagacg ctcgtagct gccggggcgg aacctctcct ccctggggcca gccctccag cctctgggccc gtctggtggt atctcgatc atcctggccc ctctggtgaa tctctgtgaa tcatctacgc gcttcacgc cacagctgtg ttcgccagca tattattgat ccttgaaac cgtactctct catgccagg atcgctatta gttggaatta gtatcatgag cagctaaagg atctgctggc agatggaaat atgtacaac gcttcaagag gcatttcgct accaggtttc acagtcgtg gagtcacccg atgtacacgc accaccaggt ccagtcggaa gaaaagagca acgccaagag tgccctccgc acttcaagtt ctgaggtaaa ttatcagtc cagctatggg caaattgaga	atgtgctctgg ttctacctt ctgtgacaa tagcactgtc gatgctgctt gacagcaag actgctgctt gagcagcaag TVNGTPVNHQ SLACDILIIG IFSNMLYTTY KRTPKRAGIM AFYIPVSVMT LAQRERNOAS WSSSRSTST TGKPSQATGP SANWAKAEQL TEKSDYDTPN ETEETFVKAE KEPSTKGLNP QETNNGCHKV KIMPCFPFVA CVPVTLWHLG FIITWTPYNI MLVSTFCDK EKLWQGNK LP LCRWKKKVE TERKTFKMLL tccagtcctt atctgaagac tcttggtgctg ctctccagc agcagaacc tggatagacg ctcgtagct gccggggcgg aacctctcct ccctggggcca gccctccag cctctgggccc gtctggtggt atctcgatc atcctggccc ctctggtgaa tctctgtgaa tcatctacgc gcttcacgc cacagctgtg ttcgccagca tattattgat ccttgaaac cgtactctct catgccagg atcgctatta gttggaatta gtatcatgag cagctaaagg atctgctggc agatggaaat atgtacaac gcttcaagag gcatttcgct accaggtttc acagtcgtg gagtcacccg atgtacacgc accaccaggt ccagtcggaa gaaaagagca acgccaagag tgccctccgc acttcaagtt ctgaggtaaa ttatcagtc cagctatggg caaattgaga	gacttgggc ctgcaacaga aaaagtggaa P Homo sapiens SLITIVGNVL VMISFKVNSQ P Homo sapiens LACDLWLALD YVASNASVMN YLWPKRTVPL QGSDSVTKAE SANWAKAEQL TEKSDYDTPN ETEETFVKAE KEPSTKGLNP QETNNGCHKV KIMPCFPFVA CVPVTLWHLG FIITWTPYNI MLVSTFCDK EKLWQGNK LP LCRWKKKVE TERKTFKMLL tccagtcctt atctgaagac tcttggtgctg ctctccagc agcagaacc tggatagacg ctcgtagct gccggggcgg aacctctcct ccctggggcca gccctccag cctctgggccc gtctggtggt atctcgatc atcctggccc ctctggtgaa tctctgtgaa tcatctacgc gcttcacgc cacagctgtg ttcgccagca tattattgat ccttgaaac cgtactctct catgccagg atcgctatta gttggaatta gtatcatgag cagctaaagg atctgctggc agatggaaat atgtacaac gcttcaagag gcatttcgct accaggtttc acagtcgtg gagtcacccg atgtacacgc accaccaggt ccagtcggaa gaaaagagca acgccaagag tgccctccgc acttcaagtt ctgaggtaaa ttatcagtc cagctatggg caaattgaga

197	3378	Tachykinin Receptor 3	NP_001050.1	aaggtagtgatg ataaatgtga caaagacact aataacatgt tagcctccac ccaaaataaa atgggcttta aattt	Homo sapiens
				PVAPSPAPSQP WANLTNQFVQ PSWRIALMSL AYGVVAVAV WQLLLDQAGN LSSSPSALGL P NYFLVNLAFLS DASHMAENTL VNFYIALHSE WYFGANICRF QNFFPITAVF ASIYSMTAIA VDRYMAIIDP LKPRLSATAT KIVIGSIWIL AFLAFPQCL YSKTKVMPGR TLCFVQWPEG PKQHFTYHII VIIIVYCFPL LIMGITYTIV GITLWGEIP GDTCDKYHEQ LKAKRKVVKM MTIIVMTFAI CWLPYHIYFI LTAIYQQLNR WKYIQOVYLA SFWLAMSSTM YNPITYCCLN KRFRAGFKRA FRWCPFIKVS SYDELELKTIT RFHPNRQSSM YTVTRMESMT VVFDPNDAIT TRSSRKKRAT PRDPSFNGCS RRNSKSASAT SSFISSPYTS VDEYS	
198	3380	Neuromedin B Receptor	NM_002511	gtgctgtgag gcttgcccg ggcagataaa cttgcagggg cgagagggag ggacatcgat A taaacctaaa tegtgggctg tgcgtctca gggcaccgag cgcgtgaaaa ctccagcgga ctctgtgga aaggagatca tgccctctaa gtctcttcc aacctctcgg tgaccaccgg cgcgaatgag agcgggtccg ttcccgaggg gtgggaaagg gattctctgc cggcctcgga cgggaccacc acggaggtgg tgatccgctg tggatcccg tccctctacc tgctcatcat cacctgtggc ttgtgtggca acatcatgct ggtgaagatc ttcataccca acagcgccat gaggagcgtc ccaacatct tcatctctaa cctggcgccc ggggacttgc tgctgctgct cacctgcgtc cgggtggacg cctcgcgcta ctctctcgac gagggtatgt ttggcaaggt ggctgtcaaa ctgataccctg tcatccagct cactctcctg ggggttcccg tgttcatctt cactgcccac agcgcgagca ggtacagagc catcgttaac cccatggaca tgcagacgtc aggggcatgg ctgcggacct gtgtgaagc catgggtatc tgggtgtgtc cctgtgtgtc ggcagttccc gaagcgtgt ttctgaagt ggctcgatc agtagcttg ataatagcag cttcacagca tgtatcccat accctcaaac agatgaatta catccaaaga ttcattcagt gctcattttc ttggtctatt tctcatacc acttgctatt attagcattt attattatca tattgcaaa accttaatta aaagcgaca caatctcct ggagaataca atgaacatac caaaaaacag atggaaacac ggaacgcct ggctaaaatt gtgcttgtct ttgtgggctg tttcatcttc ttgtgtttc caaacacat cctttacatg tatcgttctt tcaactataa tgagattgat ccatctctag gccacatgat tgtcacctta gttgcccggg ttctcagttt tggaattct ttgtcaacc catttgctct ttacctactc agtgaaagct tcaggaggga tttcaacagc caactctgct gtgggaggaa gtctcatcaa gagagaggaa ccagctacct actcagctct tcagcgtgc gtatgacatc tctgaaagc aatgctaaga acatggtgac caattctgtt ttactaaatg ggcacagcat gaagcaggaa atggcaatgt gattttggcc attcaactca ctactggag agaactagt aa	Homo sapiens
199	3380	Neuromedin B Receptor	NP_002502.1	MPSKSLSNLS VTTGANECS VPEGWERDFL PASDGTTEL VIRCVPISLY LLIITVLLG P NIMLVKIFIT NSAMRSVPNI FISNLAAGDL LLLLTCTVPVD ASRYFFDEWM FGKVGCKLIP VIQLTSVGVS VFTTALSAD RYRAIVNPMQ MOTSGALLRT CVKAMGIWV SVLLAVPEAV FSEVARISL DNSSTACIP YPQDELHPK IHSVLFLVY FLIPLAISI YYHIAKTLL KSAHNLPGY NEHTKKQMET RKRLAKIVL FVGCFFCWF PNHILMYRS FNYNEIDPSL GHMIVTLVAR VLSFGNSCVN PFALYLSES FRRHFNLSQLC CGRKSQBERG TSYLLSSAV RMTSLKSNK NMVTNSVLLN GHSMKQEMAM	Homo sapiens

200	3404	Neuropeptide NM_000910 Y Receptor Type 2	Homo sapiens
tatcttatcc	ctatcctagc	ttttaacctg	agccagagct cactacacag gttcctggct A
atcgagctcg	aatctgcact	actcaactta	taactgtct gcagacacct gttaggga
ttgtgatca	tggcgccgag	gatctgaact	cgctttacct tcttggtttg agcacaggga
ccgcccagct	agaggagcac	cagcgcactg	cgccccagcc ctggcgaggg gtgcggagga
tttgtttctg	gtgcaatcct	gctggcgctt	tccgggggtt ctggcggtat ccagctcccc
atctctgctc	ctacacacac	aaaagaaaac	aactctcgat tggaaagtgt ggaattttct
cagccccctac	gaggcgccgg	gattctccag	ccccggccct cctccgcga cctgagggtc
tccttcgctc	gcctgccttg	ctagggaaccg	cagtcctca cccgcagctg ggtctgtccg
ccccgccttt	gcctgcctt	tttccgggg	cggatttggg gaagtcggcc tcaagtccag
gagggtctgtc	ttcgccgggc	cagctctcgc	ggaactgggg gtagagagc aaaggagag
attcgtggaa	gggaaggag	gtagggtgtg	cgcaaacgcc cagagtatca aacttggggg
tggcacagta	ggtgacagca	gcagctgcag	gtggtggctg gggaccgcg agggggcgcc
cctctgggta	gggtctggct	gagcgggctt	gcaagcccg gaggcgctg agagaccctg
gacactgttc	ctgtccctc	gccacaaaa	cttctcctcc agtccctcc cctgcaggac
catcgccgc	agcctctgca	cctgttttct	tgtgtttaag ggtggggttt gccccctcc
ccacgctccc	atctctgac	ctccacctt	caccgcacca cccgcgagt gagtgcgtg
ccagggcgcg	cttggcctga	gaggtcggca	gcagccccgg cagcgcaaac cggccagccg
ctctgactgc	tcgggctgcc	cgccgcgcg	gcgcgggctg tcttgacccc taggagggga
cggaaccgga	cttgcccttg	ggcacttcc	agggcctct ctaggtcggc tggctaataca
tcggacagac	ggactgcaca	catcttgtt	ccgcgtctcc ccaaaacgc gaggtcacag
tcagttgtag	actcttgtc	tggttgcagg	ccaagtggac ctgtactgaa aatgggtcca
atagggtgca	aggctgatga	gaaccagaca	gtggaagtaa tgaaggtgga acaatacagg
ccacaaacaa	ctcctagagg	tgaactggtc	cctgaccctg agccagagct tataatatgt
accaagctga	ttaggttaca	agttgttct	atatggcct actgctccat catcttgctt
gggttaattg	gcaactcctt	ggtgatccat	gtggtgatca aattcaagag catgcgcaca
gtaaccaact	ttttcattgc	caatctggct	gtggcagatc ttttgggaa cactctgtgt
ctacogltca	ctcttaccta	tacctaatg	ggggagtggg aaatgggtcc tgtcctgtgc
cactbgtgtc	cctatgcccc	gggcbtggca	gtacaagtat ccacaatac cttgacagta
attgccctgg	accggcacag	gtgcatcgtc	taccacctag agagcaagat ctccaagga
atcagcttcc	tgattattgg	cttggcctgg	ggcaccatg ccctgctggc aagtccccctg
gccatcttcc	gggagtattc	gctgattgag	atcatcccg actttgagat tgtggcctgt
actgaaaaat	ggcctggcga	ggagaagagc	atctatggca ctgtctatag tctttcttcc
ttgttgatct	tgtatgtttt	gcctctgggc	attatatcat ttctctacac tcgcatttgg
agtaaaattga	agaaccatgt	cagtcctgga	gctgcaaatg accactacca tcagcgaagg
caaaaaacca	ccaaaatgct	gggtgtgtgt	gtggtgtgtg ttgcgttcag ctggctgctt
ctccatgcct	tcagcttgc	cgttgacatt	gacagccagg tcttggaact gaaggagtac
aaactcatct	tcacagtgtt	ccacatcatc	gccatgtgct ccacttttgc caatccccct
ctctatggct	ggatgaacag	caactacaga	aaggcttccc tctcgccctt ccgctgtgag
cagcgggttg	atgccattca	ctctgagggtg	tccgtgacat tcaaggctaa aaagaacctg
gaggtcagaa	agaacagtgg	ccccaatgac	tctttcacag aggtaccata tgtctaagga
agctgtgggtg	tgaanaatga	tggatgaatt	ctgaccacag ctatgaatct ggttgatggc

Homo sapiens

202	3405	Neuropeptide NM_005972 Y Receptor Type 4	atgaacaccc ctacccctct ggcccttgctg ctcccaaat ctccacaagg tgaataacaga A agcaaacccc tgggcacccc atacaacttc tctgaacatt gccagattc cgtggacgtg atggtcttca tgcacttc ctacagcatt gagactgtcg tgggggtcct gggtaacctc tgccctgatgt gtgtgactgt gaggcagaag gagaagcca acgtgacca cctgcttacc gccaacctgg ccttctctga ctctctcatg tgccctctct gccagccgt gaccgcccgc tacaccatca tggactactg gatctttgga gagaccctct caaatgtgc ggccttcac cagtgcattg cgtgtacggt ctccatccct tgcctgtcc tegtggccct ggagagacat cagctcatca tcaacccaac aggtctggaag ccagcatct cacaggccta cctggggatt gtgctcatct ggttcattgc ctgtgtcctc tccctgccct tccctggccaa cagcatcctg gagaatgtct tccacaagaa ccactccaag gctctggagt tccctggcaga taaggtggtc tgtaccgagt cctggccact ggctcaccac cgcacatct acacacctt cctgctcctc ttccagtact gctccact gggtctcatc ctggtctgtt atgcacgcat ctaccggcgc ctgcagaggc aggggcgcgt gttcacaaag ggcacatca ccttgcgagc tgggcacatg aagcaggcca atgtgtgct ggtgtgatg gtgtggcct ttgctgtgct ctggtgcct ctgcattgt tcaacagcct ggaagactgg caccatgagg ccatcccat ctgccacggg aacctcatct tcttagtgtg ccacttgctt gccatggcct ccactgcgt caacccatc atctatggct ttctcaacac caactcaaag aaggatca aggccctggt cgtgacttgc cagcagagcg cccctctgga ggagtcggag catctgccc tgtccacagt acatacggaa gtctccaaag ggtccctgag gctaagtggc aggtccaatc ccatctaa 1 MN7SHLLALL LPKSPQENR SKPLGTPYNF SLHCQSDVDV MVFIVTSYSI ETVVGLGNL P 203 3405 Neuropeptide NP_005963.1 Y Receptor Type 4 CLMCVTVRQX EKANVTNLI ANLAFSDFLM CECQDQITAV YTIMDYWIFG ETLCKMSAFI QCMSTVVSIL SLVVALERH QLIINPTGWH PSISQAVLGI VLIWVIACVL SLPFLANSIL ENVEFKHNSK ALEFLADKW CTESWPLAH RTIYTFLLL FOYCLPLGFI LVCYARIYR LQROGRVFKH GTYSIRAGHM KQNVVVLVVM VVAFVWLWP LHVFNLEDW HHEAIPICHG NLIFLVCHLL AMASTCVNPF IYGFINTNFK KEIKALVLTG QQSAPLESE HLPSTVHTE VSKGSLRLSG RSNPI gaaaggctat cggtaacaaac tgacctgcca caaagttaga agaaaggatt gattcaagaa A agactataat atggatttag agctcgacga gtattataac aagacacttg ccacagagaa taatactgct gccactcgga attctgattt ccagctctgg gatgactata aaagcagtg agatgactta cagtatttct tgattggct ctatacattt gtaagtcttc ttggctttat ggggaatcta cttattttaa tggctctcat gaaaaagcgt aatcagaga ctacggtaaa cttctcata ggaactctgg cctttctga tatcttggt ttgctgtttt gctcacctt cacactgacg tctgtcttgc tggatcagtg gatgttggc aaagtcatgt gccatattat gcctttctt caatgtgtg cagtttgggt ttcaaatata atttaatat caattgceat tgtcaggtat catatgataa aacatcccat tttaataat ttaacagcaa accatggcta ctttctgata gctactgtct ggacacatg ttttggcatc tgttctccc ttccagtgtt tcacagtctt gtggaacttc aagaaacatt tggttcagca ttgctgagca gcaggattt atgtgttgag tcatggccat ctgattcata cagaatgcc ttactatct cttattgct agttcagtat attctgccc tagtttgtct tactgtgaagt catacaagtg tctgcagaag tataagctgt ggattgtcca acaagaaaaa cagacttgaa gaaaatgaga tgatcaactt aactcttcat ccatccaaaa agagtggcc tcaggtgaaa ctctctggca gccataaatg	Homo sapiens
203	3405	Neuropeptide NP_005963.1 Y Receptor Type 4	atgaacaccc ctacccctct ggcccttgctg ctcccaaat ctccacaagg tgaataacaga A agcaaacccc tgggcacccc atacaacttc tctgaacatt gccagattc cgtggacgtg atggtcttca tgcacttc ctacagcatt gagactgtcg tgggggtcct gggtaacctc tgccctgatgt gtgtgactgt gaggcagaag gagaagcca acgtgacca cctgcttacc gccaacctgg ccttctctga ctctctcatg tgccctctct gccagccgt gaccgcccgc tacaccatca tggactactg gatctttgga gagaccctct caaatgtgc ggccttcac cagtgcattg cgtgtacggt ctccatccct tgcctgtcc tegtggccct ggagagacat cagctcatca tcaacccaac aggtctggaag ccagcatct cacaggccta cctggggatt gtgctcatct ggttcattgc ctgtgtcctc tccctgccct tccctggccaa cagcatcctg gagaatgtct tccacaagaa ccactccaag gctctggagt tccctggcaga taaggtggtc tgtaccgagt cctggccact ggctcaccac cgcacatct acacacctt cctgctcctc ttccagtact gctccact gggtctcatc ctggtctgtt atgcacgcat ctaccggcgc ctgcagaggc aggggcgcgt gttcacaaag ggcacatca ccttgcgagc tgggcacatg aagcaggcca atgtgtgct ggtgtgatg gtgtggcct ttgctgtgct ctggtgcct ctgcattgt tcaacagcct ggaagactgg caccatgagg ccatcccat ctgccacggg aacctcatct tcttagtgtg ccacttgctt gccatggcct ccactgcgt caacccatc atctatggct ttctcaacac caactcaaag aaggatca aggccctggt cgtgacttgc cagcagagcg cccctctgga ggagtcggag catctgccc tgtccacagt acatacggaa gtctccaaag ggtccctgag gctaagtggc aggtccaatc ccatctaa 1 MN7SHLLALL LPKSPQENR SKPLGTPYNF SLHCQSDVDV MVFIVTSYSI ETVVGLGNL P 203 3405 Neuropeptide NP_005963.1 Y Receptor Type 4 CLMCVTVRQX EKANVTNLI ANLAFSDFLM CECQDQITAV YTIMDYWIFG ETLCKMSAFI QCMSTVVSIL SLVVALERH QLIINPTGWH PSISQAVLGI VLIWVIACVL SLPFLANSIL ENVEFKHNSK ALEFLADKW CTESWPLAH RTIYTFLLL FOYCLPLGFI LVCYARIYR LQROGRVFKH GTYSIRAGHM KQNVVVLVVM VVAFVWLWP LHVFNLEDW HHEAIPICHG NLIFLVCHLL AMASTCVNPF IYGFINTNFK KEIKALVLTG QQSAPLESE HLPSTVHTE VSKGSLRLSG RSNPI gaaaggctat cggtaacaaac tgacctgcca caaagttaga agaaaggatt gattcaagaa A agactataat atggatttag agctcgacga gtattataac aagacacttg ccacagagaa taatactgct gccactcgga attctgattt ccagctctgg gatgactata aaagcagtg agatgactta cagtatttct tgattggct ctatacattt gtaagtcttc ttggctttat ggggaatcta cttattttaa tggctctcat gaaaaagcgt aatcagaga ctacggtaaa cttctcata ggaactctgg cctttctga tatcttggt ttgctgtttt gctcacctt cacactgacg tctgtcttgc tggatcagtg gatgttggc aaagtcatgt gccatattat gcctttctt caatgtgtg cagtttgggt ttcaaatata atttaatat caattgceat tgtcaggtat catatgataa aacatcccat tttaataat ttaacagcaa accatggcta ctttctgata gctactgtct ggacacatg ttttggcatc tgttctccc ttccagtgtt tcacagtctt gtggaacttc aagaaacatt tggttcagca ttgctgagca gcaggattt atgtgttgag tcatggccat ctgattcata cagaatgcc ttactatct cttattgct agttcagtat attctgccc tagtttgtct tactgtgaagt catacaagtg tctgcagaag tataagctgt ggattgtcca acaagaaaaa cagacttgaa gaaaatgaga tgatcaactt aactcttcat ccatccaaaa agagtggcc tcaggtgaaa ctctctggca gccataaatg	Homo sapiens
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205 3406 Neuropeptide NP_006165.1 MDLEDEYNN KTLATENNTA ATRNSDFPVW DDYKSSVDDL QYFLIGLYTF VSLGFMGNL P Homo sapiens
Y Receptor
Type 5

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QCVSVLVSTL ILISIAIVRY HMKHPISNN LTANHGYFLI ATVWTLGFAL CSPLPVFHS
VELQETFGSA LLSRYLCVE SWPSDSYRIA FTISLLVQY ILPLVCTVS HTSVCRSISC
GLSNKENRLE ENEMINLTILH PSKKSQPQVK LSGSHKWSYS FIKKHRRYS KKTACVLPAP
ERPSQENHSR ILPENFGSVR SQLSSSKFI PGVPTCFEIK PEENSVDHEL RVKRSVTRIK
KRSRSVFYRL TILILVFAVS WMLHLFHV TDFNDNLISN RHFKLVXCIC HLLGMMSOCL
NPILYGFLNN GIKADLVSLI HCLHM

206 3408 Neurotensin NM_002531 tcaagctcgc cccgcgcagc ccagccggg ctggcgctg tctcggggg cctggggaac A Homo sapiens
Receptor
Type 1

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ctcctatctg tgcacttacc taggtagg acagtgttc atgcaccaca gacacacca

207	3408	Neurotensin Receptor Type 1	NP_002522.1	<p>cgacacctga tctcgtatca ctagcttgcg gccaggtcat gatgtggccc cggaagctgg cctgcgtgc catgagtgc tccgtcatgg agtcggagc cctgagccg gccctgggtg acggcacagc cctcacagct caaacgccc ccccaactcc caccatctgc aggtggtgaa aacaacccc gtgtatctct caataaaggt ggcgaaggg cctcgatgtg YKVLVTAVY LALFVVGTVG NTVTFTLAR KKSLSQSLQST VHYHLGSLAL SDELVTNDI P PVELYNFIW HHPWAFGDAG CRGYFLRDA CTYATALNVA SLSVERYLAI CHPFKAKTLM SRSRTKKFKIS AIWLASALLT VPMLFTMGEQ NRSADQHGAG GLVCTPTIHT ATVKVVIQVN TMSFIIPMV VISVINTIIA NKLTVMVRQA AEQGVCTVGV GEHSTFSMAI EPGRVQALRH GVRVLRVAVI AFVVCWLPYH VRRLMFCYIS DEQWTFPLYD FYHYFYMTN ALFYVSSTIN PILYNLVSAN FRHIFLATLA CLCPVWRRRR KRPAFSRKAD SVSSNHTLSS NATRETLV cctgctctgc acctgtcgtc gactgccagc cggctgaggg cgggggtctc cactgtggtc A ccagctccca aggaggttgc agaagtaccg tacagagtgg atttgacagg cagtggcatg gagccccctc tccccgcgc gttctgggag gttatctacg gcagccacct tcaggggcaac ctgtccctcc tgaagcccaa ccacagctcg ctgccccgc atctgctgct caatgccagc cacggcgccct tctgccccct cgggctcaag gtaacatcg tgggggtcta cctggccgtg tgtgtcggag ggctcctggg gaactgcctt gtcattgacg tcatctcag gcacacaaa atgaagacag ccaccaatat ttacatcttt aacctggccc tggccgacac tctgggtcctg ctgacgtgc cctccaggc cactgacatc cctcctgggt tctggcgtt- tgggaatgcg ctgtgcaaga cagtcatgct cattgactac tacaacatgt tcaccagcac cttcacccta actgccatga gtgtggatcg ctatgtagcc atctgaccc ccatcgtgac cctcgacgtc cgacagtcga gcaagcccca ggctgtcaat gtggccatct gggccctggc ctctgttctc ggtgttcccc ttgcatcatc gggctcggca caggtcgagg atgaagagat cgaagtgcctg gtggagatcc ctacccctca ggattactgg ggcgggtgt ttgccatctg catcttctc ttctccttca tegtccccgt gctcgtcatc tctgtctgct acagcctcat gatccggcgg ctccgtggag tccgctgctc ctcgggtcc cagagaagg accggaacct gcggcgcatc actcgggtgg tctgtgtggt agtggctgtg tctgtgggtc gctggacgct tgtccaggtc ttcgtgctgg ccaagggct ggggtttcag ccgagcagcg agactgccgt ggcattctg cgcttctgca cggccctggg ctacgtcaac agctgctca accccatcct ctacgcctc ctggatgaga actcaaggc ctgcttccgc agtttctgct gtgcatctgc cctgcgccgg gacgtgcagg tgtctgaccg cgtgcgagc attgccaagg acgtggccct ggcccgcaag acctctgaga cggtaaccg ccccgcatga ctagggtgg acctgcccat ggtgcctgtc agcccgcaaga gcccatctac gccaacaca gagtcacac aggtcactgc tctctaggcg gacacacct gggccctgag catccagagc ctgggatggg cttttccctg tgggccaggg atgctcggtc ccagaggag acctagtac atcatgggac aggtcaaac attagggcca cctccatggc ccagacaga ctacagctgc cctcctggtg caggggccgag gggacacag gacctacctg gaagcagctg acatgctggt ggacggccgt tactggagcc cgtgccctc cctccccgtg cttcatgtga ccttggcct cctgctgct cgttggcag aacctgggt gggcaggcac ccggaggagg agcagcagct gtgtcatcct gtgccccca tgtgctgtgt gctgtttgca tggcagggtc ccagctgcct tcagccctgt gactgtcct cagggcagct ggacaggctt ggcacggccc gggaagtga gcaggcagct tttctttggg gtgggacttg</p>	Homo sapiens
208	3452	Opiate Receptor- Like 1 (OPRL1)	NM_000913	<p>cctgctctgc acctgtcgtc gactgccagc cggctgaggg cgggggtctc cactgtggtc A ccagctccca aggaggttgc agaagtaccg tacagagtgg atttgacagg cagtggcatg gagccccctc tccccgcgc gttctgggag gttatctacg gcagccacct tcaggggcaac ctgtccctcc tgaagcccaa ccacagctcg ctgccccgc atctgctgct caatgccagc cacggcgccct tctgccccct cgggctcaag gtaacatcg tgggggtcta cctggccgtg tgtgtcggag ggctcctggg gaactgcctt gtcattgacg tcatctcag gcacacaaa atgaagacag ccaccaatat ttacatcttt aacctggccc tggccgacac tctgggtcctg ctgacgtgc cctccaggc cactgacatc cctcctgggt tctggcgtt- tgggaatgcg ctgtgcaaga cagtcatgct cattgactac tacaacatgt tcaccagcac cttcacccta actgccatga gtgtggatcg ctatgtagcc atctgaccc ccatcgtgac cctcgacgtc cgacagtcga gcaagcccca ggctgtcaat gtggccatct gggccctggc ctctgttctc ggtgttcccc ttgcatcatc gggctcggca caggtcgagg atgaagagat cgaagtgcctg gtggagatcc ctacccctca ggattactgg ggcgggtgt ttgccatctg catcttctc ttctccttca tegtccccgt gctcgtcatc tctgtctgct acagcctcat gatccggcgg ctccgtggag tccgctgctc ctcgggtcc cagagaagg accggaacct gcggcgcatc actcgggtgg tctgtgtggt agtggctgtg tctgtgggtc gctggacgct tgtccaggtc ttcgtgctgg ccaagggct ggggtttcag ccgagcagcg agactgccgt ggcattctg cgcttctgca cggccctggg ctacgtcaac agctgctca accccatcct ctacgcctc ctggatgaga actcaaggc ctgcttccgc agtttctgct gtgcatctgc cctgcgccgg gacgtgcagg tgtctgaccg cgtgcgagc attgccaagg acgtggccct ggcccgcaag acctctgaga cggtaaccg ccccgcatga ctagggtgg acctgcccat ggtgcctgtc agcccgcaaga gcccatctac gccaacaca gagtcacac aggtcactgc tctctaggcg gacacacct gggccctgag catccagagc ctgggatggg cttttccctg tgggccaggg atgctcggtc ccagaggag acctagtac atcatgggac aggtcaaac attagggcca cctccatggc ccagacaga ctacagctgc cctcctggtg caggggccgag gggacacag gacctacctg gaagcagctg acatgctggt ggacggccgt tactggagcc cgtgccctc cctccccgtg cttcatgtga ccttggcct cctgctgct cgttggcag aacctgggt gggcaggcac ccggaggagg agcagcagct gtgtcatcct gtgccccca tgtgctgtgt gctgtttgca tggcagggtc ccagctgcct tcagccctgt gactgtcct cagggcagct ggacaggctt ggcacggccc gggaagtga gcaggcagct tttctttggg gtgggacttg</p>	Homo sapiens

209	3452	Opiate Receptor- Like 1 (OPRL1)	NP_000904.1	<p>ccctgagctt ggagctgcca cctggaggac ttgcctgttc cgactccacc tgtgcagccg ggccacccc aggagaagt gtccaggtgg gggctggcag tccctggctg cagaccccga gtgcccctc ggacgcacc tctgaaggtt ttctgtgtgc tgcacgtgac aggcctcaatc cctgactga ccttgaactt gggcccaacc cccatttccc ttccaggagac cagcagaggg ccctggccat cctccagcg gtgcaatgaa ctatatctg tggaccgtca acccagccct gcttctcagt gtggggcagg tgtctcagg cgaaggcgcc gctgaccac atgggcagct ctgttcacaa agtggaggcc tegttttctt gctctgact gctctgtttg ggtgggagaa gattctctgg gggccccac atctcccaa ggtccctc acagcctctc ctttgcctga agccagagt cagtggcctg gctgtgttgc ggggaagctg tgtggaagga gaagctgggtg gccacagcag agtctgtctc tggggacgccc tgtctcaattt acaagcctca agatggctct gtgtagggcc tgaactgtct gcccacaggg aggatggctt cacagcagag ccagcatgag gggtggggcc tggcagggtt tgcctgagcc aaactgcaaa ggctgtgggtg gctgtgagga cactgcgggg gttg</p>	Homo sapiens
210	3513	Ocular Albinism 1 (Nettleship- Falls) (OAL)	NM_000273	<p>VCVGGLLGNC LVMYVILRHT KMKTAIYI FNLALADTLV LLTLPFGQTD ILLGFWPFGN ALCKTVIAD YNNMFTSTFT LTAMSVDRYV AICHPIRALD VRTSSKQAV NVAIWALASV VGVPVAIMGS AQVEDEIEC LVEIPTQDY WGPVFAICIF LFSFIVPVLV ISVCYSLMIR RLRGVRLSG SREKDRNLRR ITRLVLVVA VFVGCWTPVQ VFVLAQGLGV QPSSETAVAI LRFTALGYV NSCLNPILYA FLDENFKACF RKFCASALR RDVQVSDRVR SIAKDVALAC KTSETVRPA</p>	Homo sapiens
				<p>atggaccagg caggccggcg gggctctggc acaccgagc cgcgtcccg aacacagccc A atggccctcc cgcgcctagg gaccttctgc tgcccccagc gggacgcagc cagcagctc gtgctgagct tccagcccg ggccttccac gcgctctgcc tgggcagcgg cgggctccgc ttggcgctgg gccttctgca gctgtgtccc ggcgcgcggc cgcggggccc cgggtccccc gcgacgtccc cgcggcctc ggtccgcac ctgcgcgctg cgcgtgcctg cgacctctc ggctgcctgg gtatgggtat ccggtccacc gtgtgggttag gattcccaaa ttttgttgac agcgtctcgg atatgaacca cagggaaatt tggcctgctg ctttctgcgt ggggagtgog atgtggatcc agctgttcta cagtgcctgc ttctgtgggc tgttttgcta tgcagtggtat gcttatctgg tgatccggag atcggcagga ctgagcacca tcctgctgta tcacatcatg gcgtggggcc tggccacct gctctgtgtg gagggagcgg ccattgctta ctacccttc gtgtccaggt gtgagcgggg cctggaccac gccatccccc actatgtcac catgtacctg ccctgctgc tggttctcgt ggcgaacccc atcctgttcc aaaagacagt gactgcagtg gcctctttac ttaaagggaag acaaggcatt tacacggaga acgagaggag gatgggagcc gtgatcaaga tccgattttt caaaatcatg ctggttttaa ttattgttg gttgtcgaat atcatcaatg aaagcctttt attctatctt gagatgcaaa cagatatcaa tggagggttct ttgaaacctg tcagaaactgc agccaagacc acatggttta ttatgggaat cctgaaatcca gcccaggat ttctctgtc ttggccttc tacggctgga caggatgcag cctgggtttt cagctctccca ggaaggagat ccagtgggaa tcactgacca cctcggctgc tgagggggt caccatccc cactgatgcc ccataaaaac cctgcttccc ggaaggtgtc tcaagtgggt gggcagactt ctgacgaagc cctgagcatg ctgtctgaag gttctgatgc cagcacaatt gaaattcaca ctgcaagtga atcctgcaac aaaaatgagg gtgaccctgc tctcccaacc</p>	Homo sapiens

211	3513	Ocular Albinism 1 (Nettleship- Falls) (OAL)	NP_000264.1	catggagacc tatgaagggg atgtgtctggg ggtccagacc ccatactct cagactcaac aatcttgtt ctttagaact gtgtctctac cttcccaaca ctgcactgcc gaagtgtagc ggccccaaa cctgtctctc atccacagct agagcttctt cccgaagggc ctttaggata ggagaaaggg ttcatgcaca cacgtgtgag aatggaagag cccctccag accactctac agctgtctta gccttagtg ccactaggaa gtttcttagt gttggtctgta aagtaagtgt aaggtccaca tccttgggga agtagttaaa taataatggt atgactg MTQAGRRGPG TPEPRRTQP MASPRLTFC CPTRDATQL VLSFQPRAFH ALCLSGGGLR P LALGLQLLP GRRPAGGSP ATPPASVRI LRAAACDLL GCLGMVIRST VWLGFNFVD SVSDMNHTEI WPAAFVCSA MWIQLYSAC FWLFCYAVD AYLVIRRSAG LSTILLYHIM AWGLATLLCV EGAAMLYPS VSRCEGLDH AIPHYVTMYL PLLLVVANP ILFQKTVTAV ASLLKGRQGI YTENERMGA VIKIRFFKIM LVLIICWLSN IINESLLFYL EMQTDINGS LKPVRTAAKT TWFMGIINP AQGFLISLAF YGWTGCSLGF QSPRKEIQWE SLTTSAAEGA HPSPIMPHEN PASGKVSQVG GQTSDEALSM LSEGSDASTI EIHTASESCN KNEGDPALPT HGD	Homo sapiens
212	3544	UDP-glucose Receptor (KIAA0001)	NM_014879	gaacagtgtt accttggagc ctacaatgag aggtatttca aatgagatga agcatgactc A tcacagatga aggcctagac gcaggatctt taatggaaaa acacttggc cacttcaaga cgacaaacgc tcactgggca aaacacctc actgaaaaa gacctcatat tatgcaaaaa aaatcttaag aggcctctgc cttcagaagt tacaagatga tcaattcaac ctccacacag cctccagatg aatcctgtctc tcagaaacctc ctgactactc agcagatcat tcctgtgctg tactgtatgg tcttcattgc gggaatccta ctcaatggag tgctaggatg gatattcttt tacgtgcccc gctctaagag ttctcatctc tatctcaga acattgttat tgctgacttt gtgatgagcc tgacttttcc ttccaagatc cttgggtgact caggccttgg tcctgggacg ctgaacgtgt ttgtgtgcag ggtctctgcc gtgctctct acgtcaacat gtacgtcagc attgtgttct ttgggctcat cagctttgac aggtattata aaattgtaaa gcctctttgg acttctttca tccagtcagt gagttacagc aaacttctgt cagtgatagt atggatgctc atgctcctcc ttgctgttcc aaatattatt ctccaccaac agagtgttag ggagggtaca caataaaaat gtatagaact gaaaagtga ctgggacgga agtggcaca agcatcaaac tacatcttctg tggccatctt ctggatgtg ttctctttgt taatcgtttt ctatactgct atcacaaaaa aaatctttaa gtcccacctt aagtcaggc ggaattccac ttcgggtcaaa aagaaaatcta gccgcaacat attcagatc gtgtttgtgt ttttgtctg tttgtactt taccatattg ccagaatccc ctacacaaag agtcagaccg aagctcata cagctgccag tcaaaagaaa tcttgcggtat tatgaaagaa ttccactctgc tactatctgc tgcaaatgta tgcttgacc ctattattta ttcttttcta tgccagccgt ttagggaat cttatgtaag aaattgcaca ttccattaaa agtcagaat gacctagaca ttccagaat caaaagagga aatacacac ttgaaagcac agatactttg tgagttccta cctcttcca aagaaagacc acgtgtgcat gttgtcatct tcaattacat acagaaatc aataagatat gtgccctcat cataaatatc atctctagca ctgccatcca attagttca ataaaattca aatataagt tccatgcttt ttgttaacat caaagaaaac ataccatca gtaatttctc taatactgac ctttctattc tctattaata aaaaaattat acatacaatt attcaattct attatattaa aataagttaa agtttataac cactagtctg gtcagttat gtagaaattt aaatagtaaa taaacacaaa cataatcaaa gaaactcac tcaggcatct tcttctctca aataccagaa	Homo sapiens

213	3544	UDP-glucose Receptor (K1AA0001)	NP_055694.1	<p>tctagtatgt aattgttttc aacctgtcc ttaaagacta acttgaagc aggcacagtt</p> <p>tgatgaagg ctagagagct gtttgaata aaaagtcagg ttttttcct gatttgaaga</p> <p>agcaggaaaa gctgacaccc agacaatcac ttaagaacc ccttattgat gtatttcagt</p> <p>gactgcaaa ggaagaggaa tattaattgt atactagca agaaaatttt tttttctga</p> <p>tagcactttg aggtatttag atacatgta aatatgttt ctacaagac ttactgtcatt</p> <p>taatgagcct ggggttcttg tgtragaata ttttaagta ggtttactg agagaaacta</p> <p>aatattggca tacgttatca gcaactccc ctgttcaata gtatggaaa aataagatga</p> <p>ctggaaaaa gacacacca caccgtagaa catatattaa tctactggc aatgggaaag</p> <p>gagaccattt tcttagaaag caataaaact tgattttttt aaatcaaaa ttacattaa</p> <p>tgagtcaaaa ataacacata aaatgaaaat tcacacatca catttttctg gaaaacagac</p> <p>ggattttact tctggagaca tggcatacgg ttactgactt atgagctacc aaaactaaat</p> <p>tcttctctg ctattaactg gctagaagac attcatctat ttttcaaatg tctttcaaa</p> <p>acatttttat aagtaatgtt tgtatctatt tcatgtctta ctgtctatat actaataaag</p> <p>aaatgtttta atactg</p>	Homo sapiens
214	3582	Oxytocin Receptor	NM_000916	<p>PFREILCKKL HIPLKAQNDL DISRIKRGNT TLESTDL</p> <p>tgtttaaggct ctgggaccaa cgctggcgca accagatccg ctccggaggg gtctgcggg A</p> <p>ctggctctgc cggccccta cgggacccgt cggatagtcg agcctcagcc ccaggcacag</p> <p>cggcgatcc agacccgtc cggcgcgca gcctggagg gcctcctcgc tcgctcctg</p> <p>taccatcca cggaccagcc aggtcgggc gagggattc caaccaggc tccagtga</p> <p>gacctcagct tagcatcaca ttaggtgcag ccggcaggcc atcccaactc gggccgggag</p> <p>cgcacgcgc actggggccg ttagtcgccg tgcaactcc ccggggggag tcaactttag</p> <p>gttcgcctgc gactcgggtg cagtggaaac cgtgaaacat ccgagggaac tggcacgctg</p> <p>ggggtcttg gcttgtggcc gtagaggat tcccgctcat ttgcagtggc tcagaggagg</p> <p>gtggacccag cagatccgtc cgtggagtct ccaggagtgg agccccggc gccctacac</p> <p>cctccgacac gccgatccg gccagccgc gccagccgt aaagggtcg agggccggg</p> <p>cgaaccgtg ccgcaagggt catggagggc gcgctgcgag ccaactggag cgcgaggca</p> <p>gccaacgcca cgcgcgcgc gccggggcc gagggcaacc gcaccgcgg acccccgcg</p> <p>cgaacgagg cctggcgcg cgtggagggt gcggtgctgt gtctcatct gctcctggc</p> <p>ctgagcggga acgctgtgt gctgtggcg ctgcccacca cagccagaa gcaactcgc</p> <p>ctctcttct tcatgaagca cctaagcat cgcgacctg tggggcagt gtttcaggtg</p> <p>ctgccgcagt tctgtggga cateacttc cgtcttacc ggcccacct gctgtgccg</p> <p>ctgtcaagt actgcaggt ggtgggcatg ttgcctcca ctactgct gctgtcatg</p> <p>tccttgacc gctgctggc catctgccag ccgtgcgct cgtgcgccc cgcacccag</p> <p>cgcctggcag tgcctgccac gtggctcggc tgcctggtg ccagcgccc gcagggtcac</p> <p>atcttctct tgcgcgagg gtgtacggc gtcttgact gctgggccc ctctaccag</p> <p>ccctggggac ccaaggccta catcatgg atcacgtag ctgtctacat cgtgcggtc</p>	Homo sapiens

atcgtgctcg ctacctgcta cggccttacc agcttcaaga tctggcagaa cttggcgctc
aagaccgtg cagcggcggc ggcgagggc cagagggcg cggcgctgg cgatggggg
cgctggccc tggcgctgt cagcagcgtc aagctcatc ccaaggccaa gatccgcag
gtcaagatga ctttcatcat cgtgctggcc ttcatctgt gctggacgcc ttcttcttc
gtcagatgt ggagcgtctg ggatgccaac gcacctcggc aagcctcggc cttcatcgc
gtcatgctcc tggccagcct caacagcgtc tgcaacccct ggatctacat cttgttcaag
ggccacctc tccacgaact cgtgcagcgc ttctgtgtc tcccgccag ctacctgaag
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gacaaacccc tggcctccta cagtaactc taccacttc tccagttat ttttactct
agtgaagtgc ttgtttttc tccctgactt gtaatttcac tccagttat ttttactct
tcattctggg atatttgaa aagcgtgtaa tataggattg gtgaccaatt gggtcaggaa
gtccagtggt ctggacttgg ggttaagcagt ggggttggga cctcagatgg gaagggtgtg
gctaagatcc tccctgacctc aaagtgtatt tgcctttaa gcaacaaatg ctgggtcct
tggggaccag cttgtcagag ggtagccta agagaagggt attacctgt aagaccatct
ggcgagtg accattaga acttgggtta aaatgttta agaagctaat gtttaagaag
catttgggaa agaaaaagaa ataatgtat ccagatagga aaagaagaag taaaactatt
tgcagatgac acagtttgt atatagaaa tcctaaggaa ctcacacaca cacacacaca
cacacacga cacagctatt agaactaata agcaagtcc gcaaggtttc aagatacaag
atcaatatac aaaaatgaat tgtatttctt tatactagca caaaactaata tgaacacgaa
gttaataat tccattata ataccatcag aaagaataaa ataggaatca acttaacaaa
acaagtgcga gactgaaaac taaaaattg gaaagaaatt aaagaaggct taaataaatg
gaaagacatc ctgtgttcat ggatcagact tagtatgtt aagatggcaa tactatccta
actgacatgc agattcagtg caatcctat gaaaatcata gctggctttt ttacagaaat
tgataagcta gtcccaaat tcataaagaa atgcaaggga ccagatatac caataaagcc
ttgaaaaaga acaagtgtg tggattcaca ctctctgatt tcataattta cgataaagg
aatcagctca gtgtgttact gggttaagga tagacatag gagcagaata aagaglacag
atatgaacac ttatactac ggtcaattga tttttgcaa ggttcccaag acaattcaat
agagaaagga ggtcttttc acaaatggc accgagacaa tgatatgcaa gtgcaaaaga
atgaggttg acccttactc acactatgtg caaaaactaa ctcaaacgc atccaagatc
taataataag agctgaact ataaaactt agaaataaac ataggcatag atctttgtta
ccttgaatta ggcagtgtt tcttagatat gataccaaa acacaagcaa ccaatggaaa
aataggtaaa ttggacttaa tcaagattg aagctttgt gatgaaaag accctatcaa
gaagtgaaa agataacctg cagaatggga gaaaatatt gcgagtcata tatatgata
ggggttgta tctggaatat ataaataact cttataacac acaataagg agaaaaata
atcaatttaa aaaaagggt aacgggttga atagacatt ctccaaagaa gatatgcaa
tggctactaa gcacatgaaa aatactcaac attattatc attagggaa tgcaagtcaa
aatcaaatg agattccagt ttacaatcac taggatgggt acaataaaaa gatggacaag

215	3582	Oxytocin Receptor	NP_000907.1	MEGALANWS AEAANASAP PGAEGNRTAG PPRNEALAR VEVAVLCIL LLALSGNACV P LLALRTRQK HSRLEFFMKH LSIADLVAV FQVLPQLWD ITFREYGPDL LCRLVKYIQV VGMFASTYLL LMSLDRLA ICQPLRLRR RTDRLAVLAT WLGLVASAP QVHIFSLREV ADGVFDCWAV FIQWGPCKAY ITWITLAVYI VPVIVLATCY GLISFKIQWQ LRLKTAASAAA AEAPEGAAAG DGRVALARV SSVKLISKAK IRTVKTFII VLAFLVCWTP FFFVQMWVW DANAPKEASA FIIVMLLASL NSCCNPWIYM LFTGHLFHEL VQFLCCSAS YLKGRRLGET SASKSNSSS FVLSHRSSSQ RSCSQPSTA	Homo sapiens
216	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	NM_002564	cggcacgagg caccocgaga ggagagcgc agcgccagtgg cgagaggagc cccttggtggc A agcagcacta cctgccaga aaatgctgg aggtcggcg tggcccagg cctggggacc tgthtttctt gttcccgca gattccctg cagcccggtc caggtccagg cgtgtgcatt catgagttag gaaccgtgc aggcgtgag catccctgac tggagagcag ggcgtggtca ggcgatggc agcagacctg ggcctctgga atgacacat caatggcacc tgggatgggg atgagctggg ctacaggtgc cgctcaacg aggaactcaa gtacgtgtg ctgcctgtgt ctacggcggt ggtgtgctg cttgggctgt gtctgaacgc cgtggcgctc tacatcttct tgtgcccct caagacctg aatgcgtcca ccacatatat gtccacactg gctgtgtctg atgactgtg tgcggcctcc ctgcctgctgc tggctctatta ctacgccgc gcgaccact ggcccttcag caggtgtgct tgcagactgg tgcgttctct cttctacac aacctttact gcagcatcct ctctctcacc tgcacagcg tgcacgggtg tctggcgctc ttacgacctc tgcgtccct cgctggggc cgggcccgct acgctcgccg ggtggccggg gccgtgtggg tgttggtgct ggctggccag gcccctgtgc tctacttgt caccaccag cgcgcgggg gccggtaac ctgccacgac acctggcacc ccgagctctt cagccgctc gtggcctaca gctcagtcct gctgggctg ctcttcgctg tgcctcttgc cgtcactctt gctgtttacg tgtctatgg tgcgggactg ctaaagccag cctacgggac ctcggggcg cctccctaggg ccaagcgcaa gtcggtgctg acctgcgctg tgggtgtggc tgtcttggcc ctcgtcttc tgccattcca cgtcaccgc acctctact actcctccg ctgcgtggac ctcagctgcc acacctcaa gcccatcaac atggcctaca aggttacccg gccgtggcc agtgctaaca gttgcttga cccgtgtct tacttctgg ctggggagag gctcgtacgc ttgcccagag atgccaagcc acctctggc cccagccctg ccaccccgcc tgcgcagag cttggccctgc gcagatccga cagaactgac atgcagagga taggagatgt gttggggcagc agtgaggact tcaggcggac agagtccacg ccggctggta gcgagaacac taaggacatt cggtgttagg	Homo sapiens

217	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	NP_002555.1	aggagaacac ttacgcctgt gcaggtttat attgggaagc ttagaggagc caggacttgt ggagacgcca cagtctccc agatattgac catcagtgac tcattgtgga tgacccatg ctccgtcatt tgacaggggc tcaggatatt cactctgtgg tccagagtca actgttccca taacccttag tcatcgtttg tgtgtataag ttgggggaat taagtttcaa gaaaggcaag agctcaaggt caatgacacc cctggcctga ctcctactga agtagctggc tgtactgcca aggtaccttag gttggagtc agctaatca agtaaatgg gaaaacaggc ccagagagga aggtggctta ccaagatcac ataccagagt ctggagctga gtaacaggg ctgagtttg acagtgtct agtcacaggt tggccagaaa accctggtta gtaatgagg ctgagtttg ccaagagatg ggaatggact ggtgcccag gtgacttag ctctgaggag taccccaagc ccaagagatg aacatctggg gactaatatc atagacccat ctggaggctc ccatgggcta ggagcagtgt gaggctgtaa cttatactaa aggtgtgtgt gctcgtaaaa aaaaa MAADLGPWND TINGWDGDE LGYRCRFNED FKYLPLPVSY GVVCVLGLCL NAVALYIFLC P RLKTNWASTT YMFHLAVSDA LYAASLPLLV YYARGDHWP FSTVLCKLVR FLFYTNLYCS ILFLTCISVH RCLGVLRPLR SLRWGRARYA RRVAGAVWVL VLACQAPVLY FVTTSRGGR VTCHDTSAPL LFSRFVAYSS VMLGLLFAPV FAVILVCYVL MARRLLKPAY GTSGGLPRAK RKSVRTIAV LAVEALCFLP FHVTRTLAYS FRSLDLSCHT LNAINMAYKV TRPLASANSC LDPVLYFLAG QRLVRFARDA KPPTGPPSPAT PARRLGLRR SDRTDMQRIG DVLGSSSEDFR RTESTPAGSE NTKDIRL	Homo sapiens
218	3595	Purinergic Receptor P2Y1	NM_002563	ccccctccc cgggagatcca gttgcctgc tccctccgc tcgctggctt ttccgatgct A tgtctgcccc ctggcgcgcg ctgcctcttc gcgcctctct accctcgga gccgcgcct aagtcgagga ggagagaatg accgaggtgc tgtggccggc tgtccccaac ggacagcagc ctgccttctt ggcgggtccc ggtctgtctt gggggaacag cacgggtcgc tccactgcg cgtctctctc gtcttcaa tgcgcttga ccaagacggg ctccagttt tactacctgc cggctgtcta catcttgta ttcatactg gcttctctgg caacagcgtg gccatctgga tgtctgtctt ccacatgaag cctggagcg gcatactcgt gtacatgttc aatttgctc tgcccgactt ctgtactgt ctgactctgc cagccctgat ctctactac ttcaataaaa cagactggat cttcggggat gccatgtgta aactgcagag gtctatcttt catgtgaacc tctatggcag catcttgttt ctgacatgca tcagtccca cgggtacagc ggtgtggtgt acccctcaa gtccctggc cggctcaaaa agaagaatgc gatctgtatc agcgtgctgg tgtggctcat tgtgtggtg gcgactctcc ccatctctt ctactcaggt accggggtcc gcaaaaaaa aaccatcac tgttacgaca ccactcaga cgagtacctg cgaagttatt tcatctacag catgtgcacg accgtggcca tgttctgtgt ccccttggtg ctgattctgg gctgttacgg attaatgtg agagcttga ttacaaga tctggacaac tctcctctga ggagaaaaatc gattacctg gtaatcattg tactcagctt ttgtgtgtg tcttacatc cttccatgt gatgaaacg atgaactga gggcccggtt tgattttcag accccagcaa tgtgtgcttt caatgacagg tttatgcca cgtatcaggt gacaaaggt ctgacaaagt tcaacagttg tgtggacccc attctctatt tcttggggg agatactttc agaaggagac tctcccgagc cacaggaaa gcttctagaa gaagtggggc aaatttgcaa tccaaagtg aagacatgac cctcaatatt ttacctgagt tcaagcagaa tggagataca agcctgtgaa ggcacaagaa tctccaaa cctctctgtt gtaatatggt aggatgttta acagaaatcaa gtacttttcc cctcttaac tttctagtgt agaaaaaat caaaccaaga aaatagttag	Homo sapiens

219	3595	Purnergic Receptor P2Y1	NP_002554.1	MTEVLPAPV NGTDAFLAG PGSSWGNSTV ASTAAVSSSF KCALTKTGQ FYLPAVYL P VFIIIGLGN VAIWVFVFM KPWGSIIVYM FNLAADFLY VLTLPALIFY YFNKTDWIFG DAMCKLQRFI FHVNLGKSL FLCISAHRY SGVYFYSMC TTVAMFCVPL VLILGCYGLI VAISPILFYS GTVVRNKTI TCYDTSDEY LRSYFYSMC TMNLRLRDLF QTPAMCAFND VRALIYKDLN NSPLRKSII LVIIIVTVFA VSYIPFVNMK FRRRLSRATR KASRRSEANL QSKSEDMTILN RVYATYQVTR GLASLNSCVD PILYFLAGDT FRRRLSRATR KASRRSEANL QSKSEDMTILN ILPEFKQNGD TSL	Homo sapiens
220	3596	Purnergic Receptor P2Y5	NM_005767	ctgatgaaag tgcttccaaa ctgaaaattg gacgtgcctt tacgatggta agcgtaaca A gctcccaactg cttctataat gactccttta agtacacttt gtatgggtgc atgttcagca tggtgtttgt gcttgggtta gtatccaatt gtgttgccat atacattttc atctgcgtcc tcaaagtcgg aaatgaaact acaacttaca tgattaaactt ggcaatgtca gacttgcctt ttgtttttac ttacccttc aggtattttt acttcaaac acggaattgg ccatttggag atttactttg taagatttct gtgatgtgtt ttataccaa catgtacgga agcattctgt tcttaacctg tattagtga gatcgatttc tggcaattgt ctaccattt aagtcaaaaga ctctaagaac caaaagaaat gcaaagattg ttgtcactgg cgtgtgggta actgtgatcg gaggaagtgc accgcggtt ttgttcagt ctacccttc catcggtaac aatgcctcag agcctgctt tgaaaatttt ccagaagcca ctggaataac atatcttca aggattgtta ttttcatcga aatagtggga ttttttattc ctctaatttt aaatgtaact tgttctagta tggtgttaaa aactttaacc aaaccagtta cattaaatag aagcaataa acaaaaacta aggttttaa aatgattttt gtacatttga tcatactctg ttctgtttt gtcccttaca atatcaatct tattttatat tctcttgtga gaacacaaac atttgttaat tgctcagtag tggcagcagt aaggacaatg tacccaatca ctctctgtat tgctgtttcc aactgttgtt ttgacctat agtttactac ttacatcgg acacaatca gaattcaata aaatgaaaa	Homo sapiens

221	3596	Purinergic Receptor P2Y5	NP_005758.1	actggtctgt caggagaagt gacttcagat tctctgaagt tcaatgtgca gagaatttta ttcagcataa cctacagacc ttaaaaagta agatatttga caatgaatct gctgcctgaa ataaaaccat taggactcac tgggacagaa ctttcaag MVSVNSSCHF YNDSFKYTLY GCMFSMVFL GLVSNCAIY IFICVLKVRN ETTTYMINLA P MSDLLEFVTL PERIFYFTTR NWPGDLCK ISVMLFYTNM YGSILFTCI SVDRELAIVY PFKSKTLRTK RNAKIVCTGV WLTVIGGSAP AVFVQSTHSQ GNNSEACFE NFPEATWKTY LSRVIFIEI VGFFIPLIN VTCSSMVLKT LTKPVLRSR KINKTKVLKM IFVHLIIFCF CFVPYNINLI LYSIVRTQTF VNCSSVAAVR TMYPTILCIA VSNCCFDPIV YYFTSDTIQN SIKMNWSVR RSDRFSEVH GAENFIQHNL QTLKSKIFDN ESAA aaggacagag gaggggccc tctgtcagc tggctgggag cagaggtggc tttgtctttt A cggaagaact ggttctgtgg aatttgtgt tatttcccat caagatcaa ggacctgctc tggggctacc tcaggggccc acaggatgag gggctgggtt tcagatgagt tttctgcttg cctgtcatct ggatagtgtc taaaatttg caaactgcct tcttgcagt gcttgcctc ttcttcata cactctgat atgtctctca gtttctctat ctgctgcctc tccagacttc tgccagaaca ttgcacgga cagtttcagg cacagaactg actggcagca gggctgctc cacgagtgg aattgtctc agcacttcac ggactgcaag cgaggcactt gtaactctt ggataacaag acctctgcca gaagaacct ggttttgaa ggcggagttc aggtgagga gatgggtgc gtcctcagt agccctgcc tccctgaaca taggaaccc acctggcag ccatggaaat ggacaatggc acaggccagg ctctgggctt gccaccacc acctgtgtct accgcgagaa ctccaagcaa ctgctgctgc cactctgta ttcggcggtg ctggcggtg gctgcccgt gaacatctgt gtcattacc agatctgac gcccgcgg gccctgagcc gcacggccgt gtacacccta aacctgtctc tggctgacct gctatatgcc tgcctccctg ccctgtctat ctacaactat gcccagggtg atcactggcc ctttggcgac ttcgcccgtc gcctgggtccg ctctctctc tatgccaacc tgaacggcag cactctctc ctacactgca tcagcttcca gcgtacctg ggcactgcc acctgtggc cccctggcac aaactgggg gccgcccggc tgcctggcta gtgtgtgtag ccgtgtggct ggccgtgaca acccagtgc tgccacagc catctctgt gccacaggca tccagcgtaa ccgcactgtc tgctatgacc tcagcccgc tgcctggcc accactata tgcctatgg catggctctc actgtcatcg gcttctctgt gcccttctgt gccctgctgg cctgctactg tctcctggcc tgcgcctgt gccgccagga tggcccgga gagcctgtgg cccaggagcg gcgtggcaag gcggcccga tggccgtggt ggtggctgt gcttggcca tcagcttctt gcctttctac atcaacaaga cagcctacct ggcagtgcg tcgacggcgg gcgtccctg cactgtattg gaggccttg cagggccta caaaggcacg cggccgtttg ccagtgcac cagcgtgtg gacccatcc tcttctact caccagaag agttccgcc ggcgaccaca tgagctcta cagaaactca cagccaaatg gcagggcag ggtcgtgtag tcttcaggt cctgggcagc ctctatatt gccattgtgt ccggggcacc aggagcccca ccaaccccaa accatggga gaattagagt tcagctcagc tgggcatgga gttaatatcc ctacacagac ccagaagctc accaaaaact attcttcag cccctctct ggcccagacc ctgtgggcat ggagatggac agacctgggc ctggctcttg agaggtccca gtcagccatg gagagctggg gaaacccat taagtgctc acaaaaatac agtgtgacgt gtactgtcaa aa	Homo sapiens
222	3597	Purinergic Receptor P2Y6	NM_004154	aaggacagag gaggggccc tctgtcagc tggctgggag cagaggtggc tttgtctttt A cggaagaact ggttctgtgg aatttgtgt tatttcccat caagatcaa ggacctgctc tggggctacc tcaggggccc acaggatgag gggctgggtt tcagatgagt tttctgcttg cctgtcatct ggatagtgtc taaaatttg caaactgcct tcttgcagt gcttgcctc ttcttcata cactctgat atgtctctca gtttctctat ctgctgcctc tccagacttc tgccagaaca ttgcacgga cagtttcagg cacagaactg actggcagca gggctgctc cacgagtgg aattgtctc agcacttcac ggactgcaag cgaggcactt gtaactctt ggataacaag acctctgcca gaagaacct ggttttgaa ggcggagttc aggtgagga gatgggtgc gtcctcagt agccctgcc tccctgaaca taggaaccc acctggcag ccatggaaat ggacaatggc acaggccagg ctctgggctt gccaccacc acctgtgtct accgcgagaa ctccaagcaa ctgctgctgc cactctgta ttcggcggtg ctggcggtg gctgcccgt gaacatctgt gtcattacc agatctgac gcccgcgg gccctgagcc gcacggccgt gtacacccta aacctgtctc tggctgacct gctatatgcc tgcctccctg ccctgtctat ctacaactat gcccagggtg atcactggcc ctttggcgac ttcgcccgtc gcctgggtccg ctctctctc tatgccaacc tgaacggcag cactctctc ctacactgca tcagcttcca gcgtacctg ggcactgcc acctgtggc cccctggcac aaactgggg gccgcccggc tgcctggcta gtgtgtgtag ccgtgtggct ggccgtgaca acccagtgc tgccacagc catctctgt gccacaggca tccagcgtaa ccgcactgtc tgctatgacc tcagcccgc tgcctggcc accactata tgcctatgg catggctctc actgtcatcg gcttctctgt gcccttctgt gccctgctgg cctgctactg tctcctggcc tgcgcctgt gccgccagga tggcccgga gagcctgtgg cccaggagcg gcgtggcaag gcggcccga tggccgtggt ggtggctgt gcttggcca tcagcttctt gcctttctac atcaacaaga cagcctacct ggcagtgcg tcgacggcgg gcgtccctg cactgtattg gaggccttg cagggccta caaaggcacg cggccgtttg ccagtgcac cagcgtgtg gacccatcc tcttctact caccagaag agttccgcc ggcgaccaca tgagctcta cagaaactca cagccaaatg gcagggcag ggtcgtgtag tcttcaggt cctgggcagc ctctatatt gccattgtgt ccggggcacc aggagcccca ccaaccccaa accatggga gaattagagt tcagctcagc tgggcatgga gttaatatcc ctacacagac ccagaagctc accaaaaact attcttcag cccctctct ggcccagacc ctgtgggcat ggagatggac agacctgggc ctggctcttg agaggtccca gtcagccatg gagagctggg gaaacccat taagtgctc acaaaaatac agtgtgacgt gtactgtcaa aa	Homo sapiens

223	3597	Purinergic Receptor P2Y6	NP_004145.1	MEWDNGTGQA LGLPPTTCVY RENFKQLLLP PVYSAVLAAG LPLNICVITQ ICTSRRALTR P	Homo sapiens
				TAVYTLNLAL ADLLYACSLP LLIYNYAQGD HWPEGDFACR LVRELFYANL HGSILFLTCT	
				SFQRYLGICH PLAPWHKRG RRAAWLVCVA VWLAVTTQCL PTAIFAATGI QRNRITVCYDL	
				SPPALATHYM PYGMALTVIG FLIPFAALLA CYCLACRLC RODGPAEPVA QERRGKAARM	
				AVVAAAFAT SFLPFHITKT AYLAVRSTPG VPCITVLEAFA AAYKGRPFA SANSVLDPII	
				FYFTQKKFRR RPHELLQKLT AKWQRQGR	
224	3599	G Protein- Coupled Receptor 23 (GPR23)	NM_005296	cctaccggtc catagtgtca gagtgtgtaa cccctgcagc cagcaggcct cctgaaaaa A	Homo sapiens
				aagtccatgg gtagacagaag attcattgac ttcaattcc aagattcaaa ttcaagcctc	
				agaccagggt tgggcaatgc tactgccaat aatacttgca ttgttgatga ttccctcaag	
				tataatctca atggtgctgt ctacagtgtt gtattcatct tgggtctgat aaccaacagt	
				gtctctctgt ttgtctctg ttccgcgatg aaaatgagaa gtgagactgc tattttatc	
				accaatctag cgtctctga ttgtctttt gtctgtacac taccttttaa aatattttac	
				aacttcaacc gccactggcc ttbtgggtgac accctctgca agatctctgg aactgcattc	
				cttaccaca tctatgggag catgctcttt ctcacctgta ttagtgtgga tctgtttcctg	
				gccattgtct atccttttcg atctctgact attaggacta ggaggaaattc tgccattgtg	
				tgtgctgggt tctggatcct agtctcagt ggcgttattt cagctctttt gtttccacc	
				actaatgtca acaatgcaac caccacctgc ttgaaaggct tctccaaacg tgtctggaag	
				acttatttat ccaagatcac aatattttat gaagtgttg ggtttatcat tctcttaata	
				ttgaatgtct cttgctcttc tgtgtgtgctg agaactcttc caagcctgc tactctgtct	
				caaattggga ccaataagaa aaaagtactg aaaaatgata cagatcatat ggcagtcttt	
				gtggtatgct ttgtacccta caactctgct cctctctgtg atgacctggt gcgctcccaa	
				gctattacta atgtctttt ggaaagattt gcaagatcca tgtaccat cactgtgtgc	
				cttgcaactc tgaactgttg ttbtgacctt ttcatctatt acttcaacct tgaatccttt	
				cagaagtccct tctacatcaa tgcacacatc agaattggagt cctgttttaa gactgaaaca	
				cctttgacca caaagccttc cctccagct attcaagagg aagtgtgta tcaaaaca	
				aataatgggt gtgaattaat gctagaatcc accttttagg tatgaaaa gtgttcaggt	
				ccagatatgg ttctctctat aattttctct atgctataaa ctaaagattt gaagctaatg	
				atactgagaa taatgcacca aatccagtc gatacatattg ttgaaaggt tactgttagg	
				tttttatgct tgtttgtgtc agtaattata ggtcaaatct aattacaaca accaagatgg	
				attgccaac tctctgctt ggttgaatt tcatgtatc gcattatcca ggtggctagt	
				ggcatttgat aatatagaa tgactttgaa actttcaaaa aggtatttct attccaatga	
				tatttggtaa ttaggttggg cctataaata tagaacaatt tcagggattt ttaaaaaatt	
				gtgtactac tgatatatgc tagttttatt ttattttttt ggactgtcat tgagtttatt	
				ttagcacaa aatattttta gcctaacatt attaataaga aatgtgtcaa atttttaaca	
				ttggtaaaa atgttatgtg cattttgaaa acagaaaaa aattgcgttg gcattgactg	
				gggtgggaa aaaagaaaa ttaacaggat ttacacaaat ataataacca caggtgtgag	
				tttaaaaaa ttcgttgttt ttacacaaa ttaaaatttt catgtcaaac ttcaagcca	
				gaaagctgct aaatagctgt ctggcaggta aaagctggaa aattacttaa aacaggaaa	
				tgtcaataaa aaaacttgag caacacaa atattttttc ttaaaatgtc acgttatctt	
				cattttggga aactaggttc tataaatat ttatctctcc tgttatctt tggagcacag	
				cacagccaga aaggggtgc atttgtccc aggtcaggag caaattgaaa aaaaaataa	

225	3599	G Protein- Coupled Receptor 23 (GPR23)	NP_005287.1	agtaatacta aaaaatacaaa ctataaaacc aaacatttta ttaaaacctg aattaatcct ttttggagg aggatagag atataaacc tgaataact tattctttct tategaattt tggagcctaa tatagccagg agctgctgaa tttgtgcccc tggattggaa ccaataaaaa aaaaaaaaa aaattctct MGDRRFIDFQ FQDSNSSLRP RLGNATANNT CIVDDSFKN LNGAVYSWVF ILGLITNSVS P LFVFCFRMKM RSETAIFITN LAVSDLLFVC TLPFKIFYNF NRWPFPGDTL CKISGTAFLT NIYGSMLFLT CISVDRFLAI VYFERSRTIR TRRNSAIVCA GRWILVLSGG ISASLFSTIN VNNATTTCFE GFSKRVMKTY LSKITIFIEV VGFIIPLILN VSCSSVVLRT LRKPATLSQI GTNKKKVLKM ITVHMAVFW CFVPYNSVLF LYALVRSQAI TNCFLERFAK IMYPITLCLA TLNCCFDPFI YYFTLESFQK SFYINAHIRM ESLEKTETPL TTKPSLPAIQ EEVSDQTNN GGELMLESTF	Homo sapiens
226	3638	Parathyroid Hormone Receptor 2 (PTH2)	NM_005048	ggccgggtggc ccggggccga ccaccacagc tgcgcgtcgt tactggccac aagtttgctc A tggccagcc aagttggcaa ctgtgaagct tctccgggc tctggaggag ggtccctgct tcttctaca ccgttcccg gcattggccgg gctggggggcg tgcctccacg tctgggggtg gctaattgctc ggcagctgcc tctggccag agcccagctg gattctgatg gcaccattac tatagaggag cagattgtcc ttgtgctgaa agcgaagta caatgtgaac tcaacatcac agctcaactc caggaggagg aagtaattg ttccctgaa tgggatggac tcatttggttg gcccagagga acagtgggga aaatatcggc tgttccatgc cctcttata tttatgactt caaccataaa ggagtgtcct tccgacactg taaccccaat ggaacatggg attttatga cagcttaaat aaaacatggg ccaattattc agactgtctt cgctttctgc agccagatat cagcatagga aagcaagaat tctttgaacg cctctatgta atgtataccg ttggctactc catctctttt ggttccctgg ctgtggctat tctcatcatt ggttacttca gacgattgca ttgcactagg aactatatcc acatgcactt atttggctct ttcattgctga gagctacaag catctttgtc aaagacagag tagtccatgc tcacatagga gtaaaaggagc tggagtcctt aataatgcag gatgaccac aaaattccat tgaggcaact tctgtggaca aatcacata tatcggtgctc aagattgctg ttgtgatgtt tatttacttc ctggctacaa attattattg gatcctggtg gaaggtctct acctgcataa tctcatcttt gtggctttct ttcgggacac caataacctg tggggcttca tcttgatagg ctggggggttt ccagcagcat ttgttgcagc atgggctgtg gcagagcaa ctctggctga tgcgaggtgc tgggaactta gtgctggaga catcaagtgg atttatcaag caccgatctt agcagctatt gggctgaatt ttattctgtt tctgaatacg gttagagttc tagctaccaa aatctgggag accaatgcag ttgggcata cacaaggaa caatacagga aactggccaa atcgacactg gtccctgtcc tagtctttgg agtgcattac atcgtgttctg tatgcctgcc tcactccttc actgggctcg ggtgggagat ccgatgcac tgtgagctct tctcaactc ctttcagggt ttctttgtgt ctatcatcta ctgctactgc aatggagagg ttacagcaga ggtgaagagc atgtggagtc ggtggaatct ctccgtggac tggaaaagga caccgcatg tggcagcccg agatgcgctc cagtgcctcac caccgtgacg cacagacca gcagccagtc acaggtggcg gcagcacac gcattggtgct tatctctggc aaagctgcca agatcgccag cagacgctt gacagccaca tcactttacc tggctatgct tggagtaact cagagcagga ctgcctggcca cactctttcc acgaggagac caaggaaagt agtgggagcg agggagatga tattctaatg gagaagcctt ccaggcctat ggaatctaac ccagacactg aaggatgcca aggagaaact gaggatgttc tctgaatgga	Homo sapiens

Homo
sapiens

227 3638 Parathyroid NP_005039.1 MAGLGASLHV WGWLMLGSL LARAQLSDG TITIEQIVL VLKAKVQCEL NITAQLQEGE P

Hormone
Receptor 2
(PTH2)

catttggtgc tgactttcat gggctggtcc aatggctggt tgtgtgagag ggcttggtg
atactccat gcttgagttc aaagctgaa aattcagtta aggtgttact taataatagt
ttttaggctc catgaattgg ctctgtataa tactaacgac atgaaaaatgc aagtgtcaat
ggagttagtt attaccttct attggcatca agttttcttc taaattaatg tatgggtatt
gctctgtgat ttttcatttt tttctgtctac ttttgggtag aaaaaagatt caattgcttg
gtgtagctt tctctcatat atataccctt aaataataag aagatctttt agtgtgtatc
attttccttt tagaaactag tattctctta tttcttactt taatgtactt ctatcacitgc
atttattttg cctgtgcata ggagcaatta ggatctaaaa aaatatatgg gaagataaaa
gatctaagaa caagtacttg ctggaattt agttggtgg acattgataa aataatgcat
ttataacaat tacatgtgtt tttgggaaca agaaaaattt ctcaaaaaag aatatttcac
acatcccttc ttttgaatgg cctctttgtg accagccaga cctcaggtct tcaactcttc
ttctttgtaa accatgtcat gtggaagat ttcctcagtt agtgagcttg tgtctgcaaa
ttgattttgt ttgtaatgta ttttgatagc aaatcatgct gcactatat cttttcttg
tttgagctgt tactacattg tacatggcat gtgggatcaa ttaaaaaattt gttttaaaaa
t

Homo
sapiens

228 3640 Parathyroid NM_000316

Hormone
Receptor 1
(PTH1)

cggaggagac cggccctagg cgggtggcgt ggggaccgcc cggatcgcac ccggcctggc A
gctcctgctc tgctgccccg tgctcagctc cgcgtacgcg ctggtggatg cagatgacgt
catgactaaa gaggaacaga tcttctgctt gcacctgctt caggcccaat gcgaaaaaacg
gctcaaggag gctcctgcaga gccacgcccag cataatggaa tcagacaagg gatggacatc
tgctccaca tcagggaagc ccaggaaaga taaggcatct gggaagctct accctgagtc
tgaggaggac aaggaggcac ccaactggcag caggtaccga gggcgccctt gctgcccga
atgggaccac atcctgtgct ggcgctggg ggcacaggt gagtgggtg ctgtgcccgt
tccggactac atttatgact tcaatcaca aggccatgcc taccgacgt gtgaccgcaa
tgccagctgg gagctggtgc ctgggacaaa caggacgtgg gccaaactaca gcgagtgtgt
caaatcttc accaatgaga ctgtgaacg ggaggtgttt gaccgctgg gcattgattta
caccgtgggc tactcgtgt ccttggcgtc cctcacgta gctgtgctca tcttggccta
ctttaggcgg ctgcaactga cgcgcaacta catccacatg cacctgttcc tctccttcac
gctgcgcgcc gtgagcatct tcgtcaagga cgtgtgtctc tactctggcg ccacgcttga
tgaggctgag cgcctcaccg aggagagct gcgcgccatc gccagggcgc ccccgccgc
tgccaccgcc gctgcgggt acgcgggctg cagggtgggt gtgaccttct tctttactt
cctggccacc aactactact ggattctggt ggagggggctg tactgacaca gcctcatctt

229	3640	Parathyroid Hormone Receptor 1 (PTHRI)	NP_000307.1	MGTRIAPGL ALLLCCPVL S SAYALVDADD VMTKEEQIFL LHRAQAQCEK RLKEVLQRPA P	Homo sapiens
				catggccttc ttctcagaga agaagtacat gtggggcttc acagtcttg gctggggtctt	
				gcccgtgtc ttctgtgctg tgtgggtcag tgtcagagct accctggcca acaccgggtg	
				ctgggacttg agctccggga acaaaagtg gatcatcag gtgcccattc tggcctccat	
				tgtgtccaac ttcatcctc ttatcaatat cgtccgggtg ctcgccacca agctcgggga	
				gaccaacgcc ggccggtgtg acacaggca cagtagtcga aatccacgt	
				ggtgtcatg cccctctttg gcgtccacta cattgtctt atggccacac catacacga	
				ggtctcaggg acgctctggc aagtcagat gcactatgag atgctcttca actccttcca	
				gggattttt gtgcgaatca tatactgtt ctgcaatggc gaggtacag ctgagatcaa	
				gaaatcttg agccgtgga cactggcact ggacttcaag cgaaggccac gcagcgggag	
				cagcagctat agtacaggcc ccattgtgtc ccacacaagt gtgaccaatg tcggcccccg	
				tgtgggactc ggccctgccc tcagcccccg cctactgccc actgccacca ccaacggcca	
				ccctcagctg cctggccatg ccaagccagg gaccccagcc ctggagacc tcgagaccac	
				accacctgcc atgctgtctc ccaaggacga tgggttctc acggctcct gctcaggcct	
				ggacgaggag gcctctgggc ctgagcggcc acctgccctg ctacaggaa agtgggagac	
				agtcattgta ccaggcgtg ggggctggac ctgctgacat agtgatgga cagatggacc	
				aaagatggg tggttgaatg atttccact cagggcctgg ggccaagagg aaaaacaggg	
				aaaaaagaa aaaaaaaga aaaaggaa	
				SEIMESDKGWT SASTSGKPRK DKASGKLYPE SEEDKEAPTG SRYGRPCLP EWDHILCWPL	
				GAPGEVVAVP CPDYIYDNH KGHAYRRCDR NGSWLVPGH NRTWANYSEC VKFLTNETRE	
				REVFDRLGMI YTVGVSVSLA SLTVAVLILA YFRLHCTFN YIHMFLSF MLRAVSIFVK	
				DAVLMSGATL DEARLTHEE LRAIAQAPPP PATAAAGYAG CRVAVTFELY FLATNYYWIL	
				VEGLYLHSLI FMAFFSEKKY LWGTFVFGWG LPAVFVAVWV SVRATLANTG CWDLSNGNKK	
				WIIQVPIAS IVLNFILEIN IVRVLATKLR ETNAGRCDR QQYRKLLKST LIVLPLFGVH	
				YIVFMATPYT EVSGTLWQVQ MHYEMLENSF QGFFVAILYC FCNGEVQAEI KKSWSRWTLA	
				LDFKRKARSQ SSSYSYGPMV SHTSVTNVGP RVGLGLPLSP RLLPTATTNG HPQLPGHAKP	
				GTPALETLET TPPAMAAPKD DGFLNGSCSG LDEEASGPER PPALLQEEWE TVM	
				agccacagaga cacattgggg ctgacctgcc gctgctgtca gtgggaggcc agtggtgctg A	
				gccaagaagt gtcattggctg gtgtctgtga cgtttccctg gctgctcact gcggggcctg	
				tccgtggggc cggggcagac tccgcaagg acgcgagcc tgcaagtccg cggccacagag	
				acacattggg gctgacctgc cgtgctgtc agtgggaggc cagtgtgtct ggccaagaag	
				tgtcatggct ggtgtgtgc acgtttccct ggtgctctc ctctgtgc ctatggcccc	
				tgccatgcat tctgactgca tcttcaagaa ggagcaagcc atgtgacctg agaagatcca	
				gagggccaat gagctgatg gcttcaatga tctcttcca ggctgtcctg ggatgtggga	
				caacatcag tgttgaagc ccgccatgt ggtgagatg gctctgtca gctgccccga	
				gctcttccga atcttcaacc cagaccaagt ctgggagacc gaaaccttg gagagtctga	
				ttttggtgac agtaactcct tagatctctc agacatgga gtggtgagcc ggaactgcac	
				ggaggatggc tggtcggaac ccttccctca ttactttgat gcctgtgggt ttgatgaata	
				tgaatctgag actggggacc aggattatta ctacctgtca gtgaaggccc tctacacggt	
				tggctacagc acatccctcg tcacctcac cactgcccag gtcatccttt gtcgcttccc	
				gaagctgcac tgcaacgca acttcatcca catgaacctg tttgtgtcgt tcatgtgag	
230	3732	PACAP Receptor Type 1	NM_001118		Homo sapiens

231	3732	PACAP Receptor Type 1	NP_001109.1	<p>ggcgtatctcc gtcttcatca aagactggat tctgtatgag gacgaggaca gcaaccactg cttcatctcc actgtggaat gtaaggccgt catgtttttc tccactact gtgttgtgtc caactacttc tggctgttca tcgagggcct gtaccttctc actctgctgg tggagacctt cttccctgaa aggagatact tctactgga caccatatt ggctggggga ccccaactgt gtgtgtgaca gtgtgggcta cgtgagact ctacttgat gacacaggct cgtgggatat gaatgacagc acagctctgt ggtgggtgat caaaggcct gtggttggct ctatcatggt taactttgtg ctttttattg gcattatcgt catcctgtg cagaaacttc agtctccaga catgggaggc aatgagtcca gcattactt gcgactggcc cggctccacc tgcgtgctcat cccatattc ggaatccact acacagtatt tgccttccc ccagagaaatg tgcgaaag ggaagactc gtgttgagc tggggctggg ctcttccag gcttttggg tggctgttct ctactgttt ctgaatggtg aggtacaagc ggagatacaag cgaataatggc gaagctggaa ggtgaaccgt tacttgcgtg tggacttcaa gcaccgacac ccgtctctgg ccagcagtg ggtgaatggg ggcaccagc tctccatctt gagcaagagc agtcccaaa tccgcatgtc tggcctccct gctgacaatc tggccactg agccatgctc ccct</p>	Homo sapiens
232	3844	Apelin Receptor	NM_005161	<p>VVHVSIALLL LLPMAPMHS DCIFKKEQAM CLEKIQRANE LMGFNDSSPG CPGMWDNITC WKPAHVGEV LVSCPELFI FNPQVWETE TIGESDFGDS NSLDLSDMGV VSRNCTEDGW SEPFPHYFDA CGFDEYESET GDQDYVYLSV KALYTVGYST SLVTLTTAMV ILCRFRKLHC TRNFTHNLF VSEMLRAISV FIKDWIYAE QDSNHCFTST VEKAVMVEF HYCVSVSNYFW LFIEGLYLF LLVETFFPER RYFYWTIIG WGTPTVCVTV WATRLRYDD TGCWDMNDST ALWWIKGPV VGSIMVNEVL FIGIIVILVQ KLOSPDMGNN ESSIYLRAR STLLIPLFG IHYTVFAFSP ENVSKRERLV FELGLGSFQG FVAVLVCFEL NGEVQAEIKR KWRSWKVNRY FAVDFKRRHP SLASSGVNGG TQLSILSKSS SQIRMSGDPA DNLA</p>	Homo sapiens

233	3844	Apelin Receptor	NP_005152.1	<p>ggtggagaac agatgcacga gaaatccatc cctacagcc aggagaccct tgtggttgac tag</p> <p>MEGGDFDNY YGADNQSECE YTDWKSSGAL IPAIYMLVFL LGTTGNGLVL WTVFRSSREK P RRSADIFIAS LAVADLTFV TLPLMATYTY RDYDWPFGTF FCKLSSYLIF VNMVASVFCL TGLSFDRLA IVRPVANARL RLRVSGAVAT AVLWVLAALL AMPVMVLRIT GDLENTTKVQ CYNDYSMVAT VSSEWAVEVG LGVSTTVGF VVPFIMLTC YFFIAQTIAG HFKERIEGL RKRRLLSII VLVVTFALC WMPYHLVKTL YMLGSLHWP CDFDLFLMNI FPYCTCISYV NSCINPFLYA FFDPRFRQAC TSMGCCGQSR CAGTSHSSG EKSASYSSGH SQPGGPNMGK GGEQMHEKSI PYSQETLVVD</p>	Homo sapiens
234	3845	Chemokine- Like Receptor 1 (CMKLR1)	NM_004072	<p>gaattcggca cgagtcaggg aagcagcccc ggcggccagc agggagactca ggacagagca A ggctccctgg gaagcctccg ggtgataggg gtgttccagc tgcggcgctc tgggggttca gagggggac tgaatgaac aatgaatga actgctttct gggaacacag ccacagccag aggagcctgt gatggcaga aagaagccag ggtgtgcaag tctcccaac agcctcgagt ggcctgcagt cacagggaac cctcaggaag accttcggg cagagaccag agggaaagccc atctctccag cagaactgct tggatttttc taccaggagg ctcaggggctc tgcaacaatg atagcagaag ctgatggcat ctgagatct aggtggggac tagcacagca tcacttctac cactttctgt tggtcacagc aactcaccat gccagtgcag attcaagggg aggaagaata gagtcacatt ctgtatggga ggcgtgacat agaattggagg atgaagatta caacacttcc atcagttacg gtgatgaata cctgattat ttagactcca ttgtggtttt ggaggactta tccctctgg aagccagggt gaccagatc ttcctggttg tggctacag catcgtctgc ttcctcggga tcttgggcaa tggctggtg atcatcatg ccacctcaa gatgaagaag acagtgaaca tggctggtt cctcaacctg gcagtgccag atttctgtt caacgtctc ctccaatcc atataccta tgcggccatg gactaccat gggtttctcg gacagccatg tgcaagatca gcaacttct tctcatccac aacatgttca ccagctctt cctgctgacc atcatcagct ctgaccgctg catctctgtg ctccctctg tctggtccca gaaccacgc agcgttcgcc tggcttacct ggcctgcagc gtcactggtg tccctggctt ctcttctgagt tcccatctc tctgttctcg ggacacagcc aacctgcag ggaataatc ctgcttcaac aacttcagcc tgtccacacc tgggtcttcc tegtggccca ctcactccca aatggacct gtggggtata gccggcacat ggtggtgact gtcaccgct tccctctgtg ctctcctggtc ccagtcctca tcatcacagc ttgtacctc accatgtgt gcaactgca gcgcaaccgc ctggccaaga ccaagaagcc ctccaagatt atttgacca tcatattac ctcttctctc tgtgtgtgcc cctaccacac actcaacctc ctgagctcc accacactgc catgacctgc tctgtcttca gccctgggtt gccctggcc actgcccctg ccattgscas cagctgcatg aaccctatc tgtatgtttt catgggtcag gacttcaaga agttcaaggt ggcctctctc tctgcctgg tcaatgtctt aagtgaagat acaggcact ctctctacc cagccataga agccttacca agatgtcatc aatgaatgag aggactcta tgaatgagag ggagaccggc atgctttgat cctcactgtg gaacctca atggactct tcaaccagg gacaccaag gatagtctt ctgaagatca aggaagaac ctctttagca tccaccaatt ttcactgcat tttgcattgg atgaacagt ttttatgctg ggaatctagg gcttgaacc cctttctct agtggacaga acatgtgtg ttccatcacg ccttgacta gcaatttatg ctcttctgga ggccagcctt gactgactca aagcaaaaaa ggaagaattc</p>	Homo sapiens

235	3845	Chemokine- Like Receptor 1 (CMKLR1)	NP_004063.1	MEDEDYNTSI SYGDEYPDYL DSIVVLEDLS PLEARVTRIF LVVVVSIVCF LGILGNGLVI P IIATFKMKKT VNMVWFLNLA VADELNVFL PIHITYAAMD YHWVFTAMC KISNFLLIHN MFTSVFLLTI ISSDRICISVL LPVWSQNHRS VRLAYMACMV IWVLAFFLSS PSIVFRDTAN LHGKISCENN FSLSTPGSS WPTHSQMDPV GYSRHMVTV TRFLCGFLVP VLIITACYLT IVCKLQRNRL AKTKKPKII VTIIITFFLC WCPYHTLNL ELHHTAMPGS VFSIGLPLAT ALAIANSCMN PILVFMGQD FKKEKVALFS RLNVALSEDT GHSSYPHSRS FTKMSSNNER TSMNERETGM L	Homo sapiens
236	3846	Sphingolipid Receptor Edg1	NM_001400	gtcgggggca gcagcaagat gcgaagcgag ccgtacagat cccgggctct ccgaacgcaa A cttcgcccctg cttgagcgag gctgcgggttt ccgagggcct ctccagccaa ggaagagcta cacaanaagc ctggatcact catcgaacca cccctgaagc cagtgaaggc tctctcgct cgccctctag cgttcgtctg gactagcgcc accccggctt cctggggaca cagggttggc accatgggc ccaccagct cccgtgggtc aaggccacc gacgtcggg ctctgactac gtcaactatg atatcatcgt ccggcattac aactacacgg gaaagctgaa tatcagcgcg gacaaggaga acagattaa actgacctg gtgggttca ttctcatctg ctgctttatc atcctggaga acatcttctg cttgtgacc atttgaata ccaagaaatt ccaccgacc atgtactatt ttatggcaa tctggccctc tcagacctgt tggcaggagt agctacaca gctaacctgc tcttgcctg ggcaccacc tacaagctca ctcccgccca gtggtttctg cggaaggga gtatgttgt ggcctgtca gcctcgtgt tcagtcctct cgccatcgcc attgagcgt atacacaa gctgaataa aaactacaca acgggagcaa taacttcgcg ctcttcctgc taatcagcg cgtcgtgggtc atctcctca tctgggtgg cctgcctatc atgggctgga actgcatcag tgcgtgtgc agctgctcca cctgctgcc cctctaccac aagcaata tctcttctg caccaggtc ttactctgc ttctgtctc catcgtcatt ctgtactgca gaactactc cttgtcagg actcgagcc gccgcctgac gtcccgcaag aacatttcca aggcagcgg cagctctgag aagtcgtgg cgctgctcaa gaccgtaatt atcgtcctga cgtctctcat cgcctgctg gcaccgtct tcactcctct cctgctggat gtgggtgca agtgagagc ctgtgacatc ctcttcagag cggagtactt cctggtgtta gctgtgtca actcgggac caaccatc atttactc tgaccaaca ggagatgct cggtccttca tccggatcat gtctctgc agtgccga gctgagactc tgctggcaaa ttcaagcgac ccatcctgc cggcatgaa ttacagcga gcaaatcga caattcctc caccocaga agacgaagg ggacaacca gagaccata tgtcttctgg aaacgtcaac tcttctctt agaactggaa gctgtccacc caccggaag gctcttact tggctcgtgg ccaccocagt gtttgaaaa aaatctctg gcttcgactg ctgccaggga ggagctgctg caagccagag ggaggagg ggagaatac agacgctgg tgggtcggg tgtggtggg tagagttagt tctgtgaac aatgactgg gaaggtgga gatcaggtcc cggcctggaa tatataattt accccctgg agcttctgatt ttgacactg ccaagggtc agcatgtca agctcctaaa gggttcattt ggcctcctt caaagactaa tgtcccatg tgaagcgtc tcttctctg gagctttgag gagatgtttt ccttacttt agtttcaaac ccaagttagt gtgtgactt ctgctcttt aggatgcc tgtacatccc acaccacc ctccctccc ttcatacccc tcctcaactt tcttttactt tatactttaa ctactgaga gtatcagag ctgggttgtt ggaatgatcg atcatctata gcaaatggc tatgttagt acgtaggctg tggaagatg aagatgtttt ggaggtgtta acaatgtcc ttcgtgagg ccaagatttc	Homo sapiens

237	3846	Sphingolipid NP_001391.2 Receptor Edg1	catgtaagcg ggatccggttt ttggaattt ggtgaagtc acttgattt ctttaaaaa catctttca atgaatgtg ttaccattc atatccattg aagccgaat ctgcataagg aagccactt tatctaatg atattagcca ggatccctgg tgctctagga gaacagaca agcaaaaca agtgaaaacc gaatggatta acttttgcaa accaaggag atttcttagc aaatgagtct acaaatatg acatccgtt tcccactt ttgtgatgtt tattcagaa tcttggtga ttcatttcaa gcaacaacat gttgtattt ttgtgttaa aagtactttt cttgattttt gaatgtattt gtttcaggaa gaagtcttt ttgtgattt tctaaccgt gttaactttt ctagaatcca cctcttgtg cccttaagca ttactttac tggtaggaa cgccagaact ttttaagcca gctattcatt agatagtaat tgaagatat tataaatatt acaaagaata aaaatatatt actgtctctt tagtatggtt ttcagtgcac ttaaacggag agatgtcttg tttttttaa aagaatagta ttaaataggt tctgacttt tgtgatcat tttgacata gctttatcaa cttttaaca ttaataaact gatttttta aag	Homo sapiens
238	3847	Sphingolipid NM_005226 Receptor Edg3	MGPTSVPLVK AHRSSVSDYV NYDIIVRHYN YTGKLNISAD KENSIKLTSV VFILICCFII P LENIFVLLTI WKTKKFRPM YYFIGNLALS DLLAGVATA NLLSGATY KLTPAQWFLR EGSMFVALSA SVFSLIAIAI ERYITMLRMK LHNGSNFRL FLLISACWVI SLILGGLPIM GWNCSALSS CSTVLPYHK HYLFCTTVF TLLLSIVIL YCRIYSLVRT RSRRLTFRKN ISKASRSSEK SLALKTVII VLSVFIACWA PLFILLLLDV GCKVKTCDIL FRAEYFLVLA VLNSGTNP II YLTNKMERR AFIRIMSCCK CPSGDSAGKF KRPIIAGMEF SRSKSDNSSH PQKDEGNPE TIMSSGNVNS SS atggcaactg cctcccgcc gcgtctcag ccggtgcggg ggaacgagac cctgcgggag A cattaccagc agtgcggaa gttgcgggc agctgaagg aggcctcga gggcagcacg ctcaccaccg tgctctctt ggtcatctg agcttcacg cttggagaa cctgatggtt ttgatggca tctgaaaaa caataaattt cacaaccga tgtactttt cattggcaac ctggtctct gcgactgct ggcgggcat gcttacaagg tcaacattct gatgtctggc aagaagacgt tcagcctgtc tcccacggtc tggttcctca gggaggcgag tatgtctgtg gcccttgggg cgtccacctg cagcttactg gccatcgcca tcgagcgga cttgacaaatg atcaaatga ggccttacga cgccacaag aggcaccgg tcttctcct gatcgggatg tgctggctca tgccttcac gctggcgcc ctgccattc tgggctggaa ctgctgcac aatctccctg actgctctac catcctgcc ctctactcca agaagtacat tgccttctgc atcagcatct tcacggccat cctggtgacc atcgtgatcc tctacgcag catctacttc ctggtgaagt ccagcagccg taaggtggcc aaccacaaca actcggagcg gtccatggca ctgctgcgga ccgtgtgat tgtgtgagc gtgttcacg cctgctggtc cccactcttc atcctctcc tcattgatgt ggcctgcagg gtgcaggcgt gcccatect cttcaaggct cagtgttca tctgttggc tgtctcaac tccgccatg acccggtcat ctacacgtg gccagcaagg agtgcggcg ggccttctc cgtctggtc gcaactgctt ggtcaggga cgggggccc gcgcctcacc catccagcct gcgctgacc caagcagaag taaatcaagc agcagcaaca atagcagcca ctctccgaag gtcaagggaag acctgcccc cacagacccc tcactctgca tcatggacaa gaacgcagca cttcagaatg ggaatctctg caactga MATALPRLQ PVRGNEIURE HYQVVKLAG RLKEASEGST LTTVLFVIC SFIVLENLMV P LIAIWKNKF HNRMYFFIGN LALCDLLAGI AYKVNIMSG KKTFSLSPTV WFLREGSMFV ALGASTCSLL AIAIERHLMT IKMRPYDANK RHRVFLIGM CWLIAFTLGA LPILGNCLH	Homo sapiens
239	3847	Sphingolipid NP_005217.1 Receptor Edg3		Homo sapiens

240	3848	C-C	NM_006641	NLPDCSTILP LYSKKYIAFC ISIFTAILVT IVILYARIYF LVKSSSRKVA NHNNSERSMA LLRTVVIVVS VFIACWSPLF ILFLIDVACR VQACPILEKA QWFIVLAVLN SAMNPVTIYTL ASKEMRRAFF RLVCNCLVRG RGARASPIQP ALDPSRSKSS SSNNSSHSPK VKEDLPHTDP SSCINDKNAA LQNGIFCN	Homo sapiens
		Chemokine Receptor 9		gcccctcatc ccaggcagag agcaaccag cctttccccc agacactgag agctgggtggt A gctgtgtgtc ccaggagagag ttgcactgcc ctcacaagc cctattccta acatggctga tgactatggc cctgaatcca catcttccat ggaagactac gtaaacitca acttcactga cttctactgt gagaaaaa atgtcaggca gtttgagag ctttccctcc cacccttgta ctggctcgtg ttcatcgttg gtgccttggg caacagtctt gttatccttg tctactggta ctgcacaaaga gtgaagacca tgaccgacat gttccttttg aattggcaa ttgctgacct cctctttctt gtcactcttc ccttctgggc ctttctgtgt gctgaccagt ggaagtccca gaccttcagt tgcaagggtg tcaacagcat gtacaagatg aacttctaca gctgtgtgtt gctgatcatg tgcatacagc tggacaggta cttgtccatt gccaggcca tgagagcaca tacttgaggg gagaaaaagg tttttgtacag caaatgggtt tgctttacca tctgggtatt ggcagctgct ctctgcatcc cagaaatctt atacagccaa atcaaggagg aatccggcat tgctatctgc accatggtt accctagcga tgagagcacc aaactgaagt cagctgtctt gacctgaag gtcatctctg ggttctctct tccctctgtg gtcatggctt gctgtctatc catcatcatt cacacctga tacaagccaa gaagtcttcc aagcacaaag ccctaaaaagt gacctcact gtccctgaccg tctttgtctt gtctcagttt cctacaact ccatcttgtt tgacatctgc ttccaggcca ccagaccat cgccttcttc ccagtgtgcca tgaacctgt tctctatgtt tttgtgggtg agagattccg ccgggatctc gtgaaaaacc tgaagaacct gggttgcac agccaggccc agtgggtttc atttacaagg agagaggaa gcttgaagt gtcgtctatg ttgctggaga caacctcagg agcactctcc cctgagggg tcttctctga ggtgcatggt tcttttggaa gaaatgagaa atacagaaac agtttcccca ctgatgggac cagagagagt gaaagagaaa agaaaactca gaaagggatg aatctgaact atatgattac ttgtagtccag aatttgccaa agcaaatatt tcaaaatcaa ctgactagtg caggaggctg ttgattggct cttgactgtg atgcccgcaa ttctcaagg aggactaagg accggcactg tggagcacc ttggctttgccc actcgccgga gcatcaatgc cgtgctctct ggaggagccc ttggattttc tccatgcat gtgaacttct gtggcttcag ttctcatgct gcctcttcca aaaggggaca cagaagcact ggctgtgtgt acagaccgca aaagcagaaa gtttctgtga aatgtccatc ttgtggaaat ttcttacct gctcttgagc ctgataaacc atgccaggtc ttatagattc ctgatctaga acctttccag gcaatctcag acctaatctt cttctgttct ccttgttctg ttctgggcca gtgaaggctc ttgttctgat ttgaaacga tctgcaggtc ttgccagtga accttgagc aactgaccac acccaagg cactcaaatg ctgttggtt ccaatccatt tctgtgtcct gctggaggtt ttaacctaga caaggattcc gcttattcct tggtatgggt acagtgtctc tccatggcct gagcaggag attataacag ctgggttcgc aggagccagc cttggccctg ttgtaggctt gtctgttga gtggcacttg ctttgggtcc acctctgtc tgctccctag aaaaagggtt ggttcttttg gcctctctt tctgagggc cactttatc tgagggaatac agtgagcaga tatgggcagc agccaggtag ggcaagggg tgaagcgcag gccttctgtg aaggctattt acttccatgc ttctctttt ctactctat	

241	3848	C-C Chemokine Receptor 9	NP_006632.2	MADDDYGESEST YWYCTRVKTM CVLLIMCISV SGAIACTMVY LKVITITVLTV NPVLVVFVGE	SSMEDYVNFN TDMFLNLAI DRYIAIAQAM PSDESTKLKS ILLVQIDAY RFRDLVKTL	FTDFYCEKNN ADLLFLVTLF RAHTWREKRL AVLTILKILG ILLVQIDAY KNLGCISQAG	VRQFASHFLP FWAIAAADQW LYSKMVCFTI FFLPFVVMAC AMFISNCVMS WVFSFRREGS	PLXWLVFIVG KFQTFMCKV WVLAALCIP CYTIIHTLI TNIDICFQVT LKLSMMLLET	ALGNSLVILV NSMYKMFYS EILYSQIKEE QAKSSKHKA QTIAFFHSCL TSGALSL	Homo sapiens
242	3849	G Protein- Coupled Receptor GPR1	NM_005279	atggaagatt tattactctc tccctgggtg tgggttcacgg attgcgggatt ttccactggc atggttgcca catcctgtct atctggcttt ttcaataatc atcaggccacc acaaatgagta tccagttagc ccttatcacc gtgatgcagg cccatccttt gagataactca aggaactcag MEDLEETLFE	SSMEDYVNFN TDMFLNLAI DRYIAIAQAM PSDESTKLKS FVLSQFPYNC RFRDLVKTL EFENYSYDLD WFTGLKWKKT MFASVFFLTV FNNHTLCYNN SSRHEFTILV PILYVLISKK atggccctcat gcggtcacaa ggcgcggacg gggctgtagc ctgggtgctgg aacctgggct	atggaagatt tattactctc tccctgggtg tgggttcacg attgcggaat ttccactggc atggttgcca catcctgtct atctggcttt ttcaataatc atcaggccacc acaaatgagta tccagttagc ccttatcacc gtgatgcagg cccatccttt gagataactca aggaactcag MEDLEETLFE	atggaagatt tattactctc tccctgggtg tgggttcacg attgcggaat ttccactggc atggttgcca catcctgtct atctggcttt ttcaataatc atcaggccacc acaaatgagta tccagttagc ccttatcacc gtgatgcagg cccatccttt gagataactca aggaactcag MEDLEETLFE	atggaagatt tattactctc tccctgggtg tgggttcacg attgcggaat ttccactggc atggttgcca catcctgtct atctggcttt ttcaataatc atcaggccacc acaaatgagta tccagttagc ccttatcacc gtgatgcagg cccatccttt gagataactca aggaactcag MEDLEETLFE	Homo sapiens	
243	3849	G Protein- Coupled Receptor GPR1	NP_005270.1	atggaagatt tattactctc tccctgggtg tgggttcacgg attgcgggatt ttccactggc atggttgcca catcctgtct atctggcttt ttcaataatc atcaggccacc acaaatgagta tccagttagc ccttatcacc gtgatgcagg cccatccttt gagataactca aggaactcag MEDLEETLFE	SSMEDYVNFN TDMFLNLAI DRYIAIAQAM PSDESTKLKS FVLSQFPYNC RFRDLVKTL EFENYSYDLD WFTGLKWKKT MFASVFFLTV FNNHTLCYNN SSRHEFTILV PILYVLISKK atggccctcat gcggtcacaa ggcgcggacg gggctgtagc ctgggtgctgg aacctgggct	atggaagatt tattactctc tccctgggtg tgggttcacg attgcggaat ttccactggc atggttgcca catcctgtct atctggcttt ttcaataatc atcaggccacc acaaatgagta tccagttagc ccttatcacc gtgatgcagg cccatccttt gagataactca aggaactcag MEDLEETLFE	atggaagatt tattactctc tccctgggtg tgggttcacg attgcggaat ttccactggc atggttgcca catcctgtct atctggcttt ttcaataatc atcaggccacc acaaatgagta tccagttagc ccttatcacc gtgatgcagg cccatccttt gagataactca aggaactcag MEDLEETLFE	atggaagatt tattactctc tccctgggtg tgggttcacg attgcggaat ttccactggc atggttgcca catcctgtct atctggcttt ttcaataatc atcaggccacc acaaatgagta tccagttagc ccttatcacc gtgatgcagg cccatccttt gagataactca aggaactcag MEDLEETLFE	Homo sapiens	
244	3850	G Protein- Coupled Receptor 10 (GPR10)	NM_004248	atggaagatt tattactctc tccctgggtg tgggttcacgg attgcgggatt ttccactggc atggttgcca catcctgtct atctggcttt ttcaataatc atcaggccacc acaaatgagta tccagttagc ccttatcacc gtgatgcagg cccatccttt gagataactca aggaactcag MEDLEETLFE	SSMEDYVNFN TDMFLNLAI DRYIAIAQAM PSDESTKLKS FVLSQFPYNC RFRDLVKTL EFENYSYDLD WFTGLKWKKT MFASVFFLTV FNNHTLCYNN SSRHEFTILV PILYVLISKK atggccctcat gcggtcacaa ggcgcggacg gggctgtagc ctgggtgctgg aacctgggct	atggaagatt tattactctc tccctgggtg tgggttcacg attgcggaat ttccactggc atggttgcca catcctgtct atctggcttt ttcaataatc atcaggccacc acaaatgagta tccagttagc ccttatcacc gtgatgcagg cccatccttt gagataactca aggaactcag MEDLEETLFE	atggaagatt tattactctc tccctgggtg tgggttcacg attgcggaat ttccactggc atggttgcca catcctgtct atctggcttt ttcaataatc atcaggccacc acaaatgagta tccagttagc ccttatcacc gtgatgcagg cccatccttt gagataactca aggaactcag MEDLEETLFE	atggaagatt tattactctc tccctgggtg tgggttcacg attgcggaat ttccactggc atggttgcca catcctgtct atctggcttt ttcaataatc atcaggccacc acaaatgagta tccagttagc ccttatcacc gtgatgcagg cccatccttt gagataactca aggaactcag MEDLEETLFE	Homo sapiens	

245	3850	G Protein- Coupled Receptor 10 (GPR10)	NP_004239.1	<p>gcttcgagc cagcggtg ggtgttcggc gggtgctgt gccactggt cttcttcctg cagccggtca cgtctatgt gtcggtgttc agctcaacca ccactgcagt ggaccgtac gtcgtgctgg tgcacccgt gaggcggcgc atctcgctgc gccacagcgc ctacgctgtg ctggccatct gggcgctgtc cgcgtgctgc gcgtgcccgc ccgcgtgca cacctatcac gtggagctca agccgacga cgtgcgctc tgcgagagt tctggggctc ccaggagcgc cagcgccagc tctacgctg gggcgctgt cgtgtcacct acctgtctcc tctgctgttc atctcctgt cttacgtccg ggtgtcagt aagctccgca accggtggt gccgggctgc gtgacccaga gccaggcga ctgggacgc gctcggcgc ggcgacctt ctgctgtgtg gtggtggtcg tgggtgtgtt cgcgctctgc tggctgcccgc tgcagctctt caacctgtg cgggacctcg accccacgc catcgacct tacgctttg gctggtgca gctgctctgc cactggctcg ccactgagttc ggctgtctac aacctctca tctacgctg gctgcacgac agcttcgcg aggagctgc caactgttg gtcgcttggc ccgcgaagat agcccccat ggccagaata tgaccgtcag cgtggtcatc tga</p>	Homo sapiens
				<p>QSLQLVHQLK P TACVPLTAY ISLRISAYAV LVTYLLPLLV WLPLHVENLL VAVPRKIAPH</p>	
246	3851	G Protein- Coupled Receptor GPR12	NM_005288	<p>atgaatgaag acctgaaggt caatttaagc gggtgctctc gggattattt agatgcgcgt A gctgcggaga acatctcggc tgctgtctcc tcccggttc ctgcgtaga gccagagcct gagctcgtag tcaacccctg ggacattgtc ttgtgtacct cgggaacctt catctcctgt gaaatgcca ttgtgtctt tateatctc cacaaccca gctgcgagc acctatgttc ctgctaatag gcagcctggc tcttcagac ctgctggcgc gcatggact catcaccaat ttgtttttg cctacctgct tcagtcagaa gccaccaagc tggtcacgat cggcctcatt gtcgctctt tctctgctc tgtctgcagc ttgtggcta tcaactgtga ccgctacctc tcactgtact acgctctgac gtaccattcg gagagacgg tcacgtttac ctatgtcatg ctcgtcatgc tctgggggac ctccatctgc ctgggggtgc tgcccgtcat gggctgggac tgccctccag acgagtcac ctgcagcgtg gtcagaccgc tcaccaagaa caacgcggcc atctctcgg tgccttctt ctteatgtt gcgtcatgc ttcagctcta catccagatc tgtaagattg tgatgagga cgcctcatcag atagccctgc agcacactt cctgggccag tcgcactatg tgaccaccgc gaaaggggtc tccacctgg ctatcctct ggggacgttt gtcgtctgtc ggatgccttt caccctctat tctctgatag cggattacac ctaccctcc atctatacct acgcccctt cctgcccgc accataaatt ccatcatcaa ccctgtcata tatgctttca gaaaccaaga gatccagaaa gcgctctgtc tcattgtctg cggctgcac ccgtccagtc tcgcccagag agcgcgctcg cccagtgtg tgtag</p>	Homo sapiens
				<p>LCTSGTLISC P ATKLVTIGLI LGLLPMGMWN IALQHHFLAT</p>	
247	3851	G Protein- Coupled Receptor GPR12	NP_005279.1	<p>gcttcgagc cagcggtg ggtgttcggc gggtgctgt gccactggt cttcttcctg cagccggtca cgtctatgt gtcggtgttc agctcaacca ccactgcagt ggaccgtac gtcgtgctgg tgcacccgt gaggcggcgc atctcgctgc gccacagcgc ctacgctgtg ctggccatct gggcgctgtc cgcgtgctgc gcgtgcccgc ccgcgtgca cacctatcac gtggagctca agccgacga cgtgcgctc tgcgagagt tctggggctc ccaggagcgc cagcgccagc tctacgctg gggcgctgt cgtgtcacct acctgtctcc tctgctgttc atctcctgt cttacgtccg ggtgtcagt aagctccgca accggtggt gccgggctgc gtgacccaga gccaggcga ctgggacgc gctcggcgc ggcgacctt ctgctgtgtg gtggtggtcg tgggtgtgtt cgcgctctgc tggctgcccgc tgcagctctt caacctgtg cgggacctcg accccacgc catcgacct tacgctttg gctggtgca gctgctctgc cactggctcg ccactgagttc ggctgtctac aacctctca tctacgctg gctgcacgac agcttcgcg aggagctgc caactgttg gtcgcttggc ccgcgaagat agcccccat ggccagaata tgaccgtcag cgtggtcatc tga</p>	Homo sapiens
				<p>QSLQLVHQLK P TACVPLTAY ISLRISAYAV LVTYLLPLLV WLPLHVENLL VAVPRKIAPH</p>	

248	3852	CX3C Chemokine Fractalkine Receptor 1	NM_001337	SHYVTRKGV STLAAILGTF AACWMPFTLY SLIADYTPS IYTYATLLPA TYNSIINPVI YAFRNEIQK ALCLICCGCI PSSLAQRARS PSDV ggggcagatc cagattccct ttgcagtgcca cgccaggcct tcaccatgga tcagttccct A gaatcagatga cagaaaactt tgagtagcat gatctggctg aggcctgtta tattggggac atcgtggtct ttgggactgt gttcctgtcc atattact cgcatactt tgccattggc ctggtgggaa attgttggt agtgtttgccc ctacacaaca caagaagcc caagagtgtc accgacattt accctctgaa cctggccttg tctgatctgc tgttttagc caatttgccc ttctggactc actatttgat aaatgaaaag ggcctccaca atgccatgtg caaattcact accgcttctt tctcatctgg cttttttgga agcatattct tcataccgt catcagcatt gataggtaac tggccatcgt cctggccgcc aactccatga acaaccggac cgtgcagcat ggcgtcacca tcagcctagg cgtctgggca ctagccattt tgggtggcagc accccagttc atgttcacaa agcagaaaga aatgaatgc cttgtgact acccggagt ccttcaggaa atctggcccc tgctccgcaa tgtggaaaca aatttctctg gcttccact cccctgctc attatgagtt attgctactt cagaatcatc cagacgtgt tttcctgcaa gaaccacaag aaagccaaag ccattaaact gatcctctctg gtggtcatcg tgttttctt cttctggaca ccctacaaag ttatgatttt cctggagacg cttaagctct atgacttctt tcccagttgt gacatgagga aggatctgag gctggccctc agtgtgactg agcgggttc atttagccat tgttgctga atcctctcat ctatgcattt gctgggagga agtccagaag atacctttac cacctgatg ggaatgcct ggtgtccctg tgtgggcgt cagtcacagt tgattcttc tcactgaat cacaaggag cagcactgga agtgtctga cagcaattt tacttaccac acgagtgat gagatgcatt gctcctctc tgaagggaat cccaaagcct tgtgtctaca gagaacctgg agttcctgaa cctgatgctg actagtggag aagattttg ttgttattc ttacaggcac aaatgatgg acccaatgca cacaacaac cctagagtgt ttgttgagaa ttgtgctcaa aattgaaaga atgaacaaat tgaactcttt gaatgacaaa gtagagacat ttctcttact gcaaatgtca tcagaacttt ttgggttgca gatgacaaa attcaactca gactagtta gttaaatgag ggtggtgaat attgttcata ttgtggcaca agcaaaaag gtgtctgagc cctcaaatg aggggaacca gggcctgagc caagcta KPKSVTDIYL LNLALSDLLF CYIGDIVVFG TVFLSIFYSV IFAIGLVGNL LWFALTNSK P TVISIDRYLA IVLAANSMNN RTVQHGVTIS LGVWAAAILV AAPQFMFTKQ KENECLGDYP EVLQEIWPVL RNVEINFLGF LPLLLMSYC YFRIIQTLFS CNHKKAKAI KLILLVVIVF FLFWTPYNVM IFLETILKIYD FFPSCDMRKD LRLALSVTET VAFSHCCCLNP LIYAFAGEKF RRYLHLYGK CLAVLCGRSV HVDFSSSESQ RSRHGSVLSS NFTYHTSDGD ALLLL atggaccag agaaaacttc agttattttg gattattact atgtacagag cccaaactct A gacatcaggg agaccactc ccatgttctt tacacctgt tcttccctcc agtcttttac acagctgtgt tccctgactg agtctgggg aacctgttc tcatgggagc gttgcatttc aaacccggca gccgaagact gatcgacatc ttatcatca atctggctgc ctctgacttc atctttcttg tcacattgcc tctctgggtg gataaagaag catctctagg actgtggag acgggctcct tcctgtgcaa agggagctcc tacatgatct cgtcaaatat gcactgcagt gtcctcctgc tcacttgcat gagtgtgac cgctacctgg ccattgtgtg gccagtcga tccagggaat tcagaaggac agactgtgca tatgtagtct gtgccagcat ctggtttatc	Homo sapiens
249	3852	CX3C Chemokine Fractalkine Receptor 1	NP_001328.1	MDQFPRESVTE NFEYDDLAEA CYIGDIVVFG TVFLSIFYSV IFAIGLVGNL LWFALTNSK P KPKSVTDIYL LNLALSDLLF VATLPFWTHY LINEKGLHNA MCKFTTAFFF IGFFGSIFFI TVISIDRYLA IVLAANSMNN RTVQHGVTIS LGVWAAAILV AAPQFMFTKQ KENECLGDYP EVLQEIWPVL RNVEINFLGF LPLLLMSYC YFRIIQTLFS CNHKKAKAI KLILLVVIVF FLFWTPYNVM IFLETILKIYD FFPSCDMRKD LRLALSVTET VAFSHCCCLNP LIYAFAGEKF RRYLHLYGK CLAVLCGRSV HVDFSSSESQ RSRHGSVLSS NFTYHTSDGD ALLLL atggaccag agaaaacttc agttattttg gattattact atgtacagag cccaaactct A gacatcaggg agaccactc ccatgttctt tacacctgt tcttccctcc agtcttttac acagctgtgt tccctgactg agtctgggg aacctgttc tcatgggagc gttgcatttc aaacccggca gccgaagact gatcgacatc ttatcatca atctggctgc ctctgacttc atctttcttg tcacattgcc tctctgggtg gataaagaag catctctagg actgtggag acgggctcct tcctgtgcaa agggagctcc tacatgatct cgtcaaatat gcactgcagt gtcctcctgc tcacttgcat gagtgtgac cgctacctgg ccattgtgtg gccagtcga tccagggaat tcagaaggac agactgtgca tatgtagtct gtgccagcat ctggtttatc	Homo sapiens
250	3853	G Protein- Coupled Receptor GPR15	NM_005290	atggaccag agaaaacttc agttattttg gattattact atgtacagag cccaaactct A gacatcaggg agaccactc ccatgttctt tacacctgt tcttccctcc agtcttttac acagctgtgt tccctgactg agtctgggg aacctgttc tcatgggagc gttgcatttc aaacccggca gccgaagact gatcgacatc ttatcatca atctggctgc ctctgacttc atctttcttg tcacattgcc tctctgggtg gataaagaag catctctagg actgtggag acgggctcct tcctgtgcaa agggagctcc tacatgatct cgtcaaatat gcactgcagt gtcctcctgc tcacttgcat gagtgtgac cgctacctgg ccattgtgtg gccagtcga tccagggaat tcagaaggac agactgtgca tatgtagtct gtgccagcat ctggtttatc	Homo sapiens

251	3853	G Protein- Coupled Receptor GPR15	NP_005281.1	MDPEETSVYL DYYATSPNS DIRETHSHVP YTSVELPVEY TAVFLTGVLG NLVLMGALHF P KPGSRRLIDI FIINLAASDF IFLVTLPLMV DKEASLGLMR TGSFLCKGSS YMISVNMHCS VLLITCMSVD RYLAIWPPV SRKFRRTDCA YVVCASIWFI SCLLGLPTLL SRELTLIDDK PYCAEKKATP IKLIWSILVAL IFTEFVPLLS IVTCYCICAR KLCALHYQSG KHNKKLKSI KIIFIVAAF LVSILPFNTF KFLAIVSGLR QEHLVPSAIL QLGMEVSGPL AFANSCVNP IYYFDSYIR RAIHVHCLPC LKNYDFGSST ETSDSHLTKA LSTFIHAEDF ARRRKRSVSL	Homo sapiens
252	3854	G Protein- Coupled Receptor GPR18	NM_005292	gaaagagaca aagcagcaat taaagtcagc ccagcaccaa ctccgacgcc aagcgttaca A ctggaacta ctttttaag caacaaaga gtctaaaca aaatacaca tttcttaaat acactgttc cagaaagagc ttttttaaca gaagcaactc aaagatatcc ctccgacaga agtgaagtg ctgaaaaatg ctctctctc acacagactt ttgatggaca ggagtttcta agtatcagtc ctaccaaca gctgtaaaat gatcacctg aacaaatcag atcaacctgt ccctttaac agtcacatc cagatgaata caaaattgca gcccttgtct tctatagctg tatctcata attggattat ttgttaacat cactgcatca tgggttttca gttgtaccac caagaagaga accacggtaa ccactctat gatgaatgtg gcattatgg acttgatatt tataatgact ttacctttc gaatgtttta ttatgcaaaa gatgaatggc catttgga gtactctgc cagattcttg gagctctcac agtgttttac ccaagcattg ctttatggct tttgccctt attagtgtg acagatacat ggccattgta cagccgaagt acgcaaaaga acttaaaaac acgtgcaaa cgtgtctggc gtgtgtggga gtctggataa tgacctgac cacgaccacc cctctgtac tgctctataa agaccagat aaagactcca ctcccgccac ctgacctcaag attctgaca tcatctatct aaaagctgtg aacgtgtga acctcactg actgacattt tttttcttga ttcccttgtt catcatgatt ggggtgctact tggtcattat tcataatctc ctccacggca ggacgtctaa gctgaaacc aaagtcaagg agaagtcct aaggatcatc atcacgtgc tgggtcaggt gctgtctgc ttatgacct tccacatctg tttcgcttct ctgatctgg gaacggggga gaacagttac atccctggg gagcctttac caccttctc atgaacctca gcacgtgtct ggaatgtgatt ctctactaca tcgtttcaaa acaaattcag gctcagatca ttagtgtcat gctatacgt aattacctc gaagcatgag cagaaaaagt ttccgactg gtactctacg gtcactaagc aatataaaca gtgaaatgtt atgaataata aggttcttctc atttcaatcc catcaaaatt cacttacta actactctgg cgtcaatgga tattctgtat aatactatca agtccctttt ctcttgaaaa aataaatca ttatcttcat tttaaaaaa aaaaaaaa	Homo sapiens

253	3854	G Protein- Coupled Receptor GPR18	NP_005283.1	MITLNQDQP VPENSHPDE YKIALVFEYS CIFIIGLEFN ITALWFSCT TKKRTVTIY P MMNVALVDLI FIMTLFRMF YYAKDEWPG EYFCQILGAL TVFYPSIALW LLAFISADRY MAIVQPKYAK ELKNTCKAVL ACVGWIMTL TTTTPLLILY KDPDKDSTPA TCLKISDIY LKAVNVLNT RLTFELIPL FIMIGCYLVI IHNLLHGRTS KLKPKVREKS IRIITLIVQ VLVCEMPFHI CFAFLMLGTG ENSYNPWGAF TTFELMNLSTC LDVILYIVS KQFQARVTSV MLYRNYLRSM RRSFRSGSL RSLSNINSEM L	Homo sapiens
254	3855	G Protein- Coupled Receptor GPR19	NM_006143	aattaagaga aaaaaagtgata atattggttt tgctcacaga atggataaca gcaagccaca A tttgattatt cctacattc tgggtccctt gctgacactg aacagagccac acctctgcca agccaatacc tgatggaatt aagtggagag cacagttgga tgagcaacca aacagacctt cactatgtgc tgaaccccg ggaagtggcc acagccagca tcttctttgg gattctgtgg ttgttttcta tcttcggcaa ttccttggtt tgtttggtca tccataggag tagggagact cagctacca ccaactactt tgtggtctcc atggcatgtg ctgaccttct caccagcgtt gccagcagc ctttgcctt gctccagttc accactggaa ggtggacgct ggtagtgca acgtgcaagg ttgtcgata ttttcaatat ctccactcag gtgtccagat ctacgtctc ctctccatct gcatagacg gattgcggca tctctacacc atcgtctatc ctctgagctt caaggtgtcc agagaaaaag ccaagaaaat gattgcggca tctggtatct ttgatgcag cttttgacc cctgtgctct ttttctatgg ctccaactgg gacagtcaat gtaactattt cctccctcc tcttggaag gactgccta cactgtcatc cacttctgg tggcctttgt gattccatct gtcctcataa ttttatttta ccaaaaggtc ataaaataa ttggagaaat aggcacagat ggcgaacagg tgaggagagc aatgaaattt gctcctcgga caaaagtga aactacaag atgttctca tttttaaact gttgtttttg ctctcctggc tgccttttca tgtagctcag ctatggcacc cccatgaaca agactataag aaaagttccc ttgttttcac agctatcaca tggatactct ttagttcttc agcctctaaa cctactctgt attcaattta taatgccaat ttctggagag ggaagaaga gactttttgc atgtcctcta tgaatgta ccgaagcaat gcctatacta tcacaacaag ttcaaggatg gccaaaaaa actacgttg catttcagaa atccctcca tggccaaaac tattaccaaa gactcgatct atgactcatt tgacagagaa gccaaaggaaa aaaagcttgc ttggcccatc aactcaaat caccaaaatac ttttgtctaa gttctcattc ttccaattgt tatgcaccag agattaaaaa gctttaacta taaaaacaga agctatttac atattgttt tcaactcaact ttccaaggga aatgttttat ttgtaaaaat gcattcattt gttactgt	Homo sapiens
255	3855	G Protein- Coupled Receptor GPR19	NP_006134.1	MVFAHMDNS KPHLIPTLL VPLQNRSCTE TATPLPSQYL MELSEHSMW SNQTDLHYVL P KGEVATASI FFGILWFSI FGNSLVCLVI HRSRRTQSTT NYFVSMACA DLLISVASTP FVLLQFTGR WTLGSATCKV VRYFYLTGP VQIYVLSIC IDRFYIVYP LSFKVSREKA KGMIAASWIF DAGFTPVLF FYGSNWDSHC NYFLPWSWEG TATVIHFLV GFVIPSVLII LFYQVIKVI WRIGTDGRTV RRTMNVPT KVKTIKMFELI IINLLFLSWL PFHVAQLWHP HEQDYKSSL VFTAITWISF SSSASKPTIY SIYNANFRG MKETFCMSM KCYRSNAYTI TTSSRAKKN YVGISEIPSM AKTITKDSIY DSFDREAKEK KLAWPINSNP PNTFV	Homo sapiens
256	3856	G Protein- Coupled Receptor GPR2/CCR10	NM_016602	agagatgggg acggaagcca cagagcaggt ttcctggggc cactactctg gggatgaaga A ggacgcatac tcggtcagc cactgcgga gctttgtac aagccgatg tccaggcctt cagccgggccc ttccaaccca gtgtctcct gaccgtgggt gcgctgggtc tggccggcaa tggtcctgggtc ctggccccc accctggcagc ccgacgcgca gcgctcctgc ccacctctgc	Homo sapiens

Homo sapiens

259	3857	G Protein-Coupled Receptor GPR20	NP_005284.1	ctcagtgccg gccctcacgc cctcacccag gccctgggcta atggggccga ggcttag	Homo sapiens
				GAIFLAGLVL NGLALVVFCC RTRAKTPSVI YTNLVVTDL LVGLSLPTRF AVYVGARGCL	
				RCAFPHVLYG FLNMHCILF LTCICVDRYL AIVRPEAPAA CRQPACARAV CAFWLAAGA	
				VTLSVLGVTG SRPCRRVFAL TVLEFLPLL VISVFTGRIM CALSRPGLLH QGRQRRVRAM	
				QLLLTVLIIF LVCFTPEFAR QVAVALWEDM PHFTSLVYH VAVTLSSLNS CMDPIVYCFV	
260	3858	G Protein-Coupled Receptor GPR21	NM_005294	TSGFQATVRG LFGQHGEREP SSGDVVSMHR SSKGSGRHHI LSAGPHALTQ ALANGPEA	Homo sapiens
				atgaactcca ccttgatggg taatcacagc agccaccct ttgcctctt gccattggc A	
				tatttgaaa ctgtcaattt ttgccttttg gaagtattga ttattgtctt tctaaactga	
				ttgattattt ctggcaacat catttgtatt ttgtatttc actgtgcacc ttgttggaac	
				catcacacta caagtatttt tatccagact atggcatatg ctgacctttt tgttgggggtg	
				agctgcgtgg tcccttcttt atcactcttc catcaccccc ttccagtaga ggagtccttg	
				acttgccaga tatttggttt tgtagtatca gtctcgaaga gcgtctccat ggcttctctg	
				gcctgtatca gcattgatag atacattgcc attactaaac ctttaaccta taatactctg	
				gttacacctt ggagactacg cctgtgtatt ttccgtgatt ggctatactc gacctgggtc	
				ttcctgcctt cctttttcca ctggggcaaa cctggatata atggagatgt gtttcagtg	
				tytgcggaagt cctggcaaac cgactcctac ttccacctgt tcatcgtgat gatgttatat	
				gccccagcag cctttattgt ctgcttcacc tatttcaaca tcttcgccat ctgccaaacg	
				cacacaaagg atatcacgga aaggcaagcc cgcttcagca gccagagtg ggagactggg	
				gaagtgcagg cctgtcctga taagcgtat gccactgttc tgttcgaat cactagtgt	
				ttttacatcc tctgttgcc atatatcat tcttcttgg tggaaagctc cactggccac	
				agcaaccgct tcgcatacct cttgaccacc tggcttgcta ttagtaaacg tttctgcaac	
				tgtgtaattt atagtcttc caacagtgt tccaaaagag gactaaagcg cctctcaggg	
				gctatgtgta cttctgtgac aagtcagact acagccaacg acccttacac agttagaagc	
				aaaggccctc ttaatggatg tcatatctga	
261	3858	G Protein-Coupled Receptor GPR21	NP_005285.1	MNSTLDGNQS SHPFCLLAFG YLETNFCLL	Homo sapiens
				HHTTSYFIQT MAYADLFVGV SCVWPSLSLL	
				ACISIDRYIA ITKPLTYNTL VTPWRLRLCI FLIWLYSTLV FLPSFFHWGK PGYHGDVFQW	
				CAESWHTDSY FTLFIVNMLY APAALIVCFT YFNIFRICQQ HTKDISERQA RFSSQSGETG	
				EVQACPDKRY AMVLFRTSV FYILWLPYII YFLLESSTGH SNRFASFLLT WLAINSNFCN	
				CVIYSLNSV FQGLKRLSG AMCTSCASQT TANDPYTVRS KGPLNGCHI	
262	3859	G Protein-Coupled Receptor GPR22	NM_005295	atgtgttttt cctccattct ggaatacaac atgcagctcg aatctaatac tacagtgcca A	Homo sapiens
				gatgacattg atgacataca caccaatag taccacaccac tatcataatcc gttaaagcttt	
				caagtgtctc tcaccggatt tcttatgtta gaaattgtgt tgggacttgg cagcaacctc	
				actgtattgg tactttactg catgaaatcc aacttaatac actctgtcag taacattatt	
				acaaatgaatc ttcatgtact tgatgtaata atttgggtgg gatgtattcc tctaaactata	
				gttatccctc tgccttcact ggagagtaac actgctctca tttgctgttt ccatgaggct	
				tgtgtatctt ttgcaagtgt ctcaacagca atcaacgttt ttgctatcac tttggacaga	
				tatgacatct ctgtaaaacc tgcaaaccca attctgacaa tgggcagagc tgaatgtta	
				atgatatcca ttgtgatttt ttcttttttc tctttcctga ttctttttat tgaggtaaat	

263	3859	G Protein- Coupled Receptor GPR22	NP_005286.1	<p>tttttcagtc ttcaaatggtg aaatacctgg gaaaaaaga cacttttatg tgtcagtaca aatgaatact acactgaact gggaatgtat tatcactgtg tagtacagat cccaatattc tttttcactg ttgtagtaat gttaatcaca tacacaaaaa taccctcaggc tcttaaatatt cgaataggca caagattttc aacaggggcag aagaagaaag caagaaaaga aaagacaatt tcttaacca cacaacatga ggctacagac atgtacaaa cagtggtgg gagaaatgta gtctttggtg taagaacttc agtttctgta ataattgccc tccggcgagc tgtgaaacga cacctggaac gacgagaaag acaaaagaga gtcttcaggga tgtctttatt gattatttct acatttcttc tctgctggac accaatttct gttttaataa caccattttt atgtttaggc cgaagtacc ttttagtaaa attaagattg tgttttttag tcatggctta tggacaact atatttcacc ctctattata tgcattcact agacaaaaa ttcaaaaaggc cttgaaaaagt aaaaatgaaa agcaggttgt tcttatagta gaagctgac ccctgcctaa taatgctgta atacacaact cttggataga tcccaaaaga acaaaaaa ttaccttga agatagtga ataagagaaa aacgtttagt gctcagggt gtcacagact ag</p>	Homo sapiens
				<p>MCFSPILEIN MQSESNITVR DDIDDINTNM YQPLSYPLSF QVSLTGFLML EIVLGLGSNL P TVLVLYCMKS NLINSVSNII TMNLHVLVDI ICVGCIPITI VILLLSLESN TALICCFHEA CVSEASVSTA INVEAITLDR YDISVKPANR ILTMGRAVLM MISIWIFSF SFLIPFIEVN FFSLQSGNTW ENKTLVCST NEYTELGMY YHLLVQIPF FFTVVVMLIT YTKILQALNI RIGTRFSTGQ KKKARKKKTII SLTTOHEATD MSQSSGGGNV VEGVRTSVSV IIALRRVAKR HRERRERQKR VFRMSLLIIS TFLLCWTPIS VLNTTILCIG PSDLLVKLRL CFLVMAYGTT IFHPLLYAFT RQKFQKVLKS KMKKRVVSIV EADPLPNNAV IHNSWIDPKR NKKITFEDESE IREKRLVPQV VTD</p>	
264	3860	G Protein- Coupled Receptor SLC/MCH1	NM_005297	<p>atgttgtgtc cttccaagac agatgggtcga gggcactctg gtaggattca ccaggaact A catggagaag gtaaaagga caagattagc aacagtgaag ggaggagaa tgggtggaga ggattccaga tgaacggtgg gtcgtctggag gctgagcatg ccagcaggat gtcagtctc agagcaaaag ccattgtcaaa cagccaacgc ttgctctctc tgtcccccagg atcacctcct cgacacggga gcatctccta catcaacatc atcatgcctt cgggtgttcgg caccatctgc ctcctgggca tcatcggga ctccacggtc atcttcggg tctgtaagaa gtccaagctg cactggtgca acaacgtccc cgacatcttc atcatcaacc tctcgtagt agatctcctc tttctcctgg gcatgccctt catgatccac cagctcatgg gcaatggggt gtggcacttt ggggagacca tgtgcacctt catcacgccc atggatgcca atagtcagtt caccagcacc tacatcctga ccgcatggc catgaccgc tacctggcca ctgtccacc catctcttcc acgaagtcc ggaagccctc tgtggccacc ctggtgatct gcctcctgtg ggcctctcc ttcatcagca tcaccctgt gtggctgtat gccagactca tccccctccc aggaggtgca gtgggtgctg gcatacgctt gcccaaccca gacactgacc tctactggtt caccctgtac cagtttttcc tggcctttgc cctgcctttt gtggtcata cagccgcata cgtgaggatc ctgcagcgca tgacgtctc agtggccccc gctccacag cagcagccg gctgaggaca aagaggtgta cccgcacag catcgccatc tgtctggtct tctttgtgtg cttggcacc tactatgtgc tacagctgac ccagttgtcc atcagccccc gcacctcac ctttgtctac ttatacaatg cggccatcag cttgggctat gccaaagct gcctcaacc ctttgtgtac atcgtgtctt gtgagcgtt ccgcaaacgc ttggtctctgt cgggtgaagc tgcagccccg gggcagcttc gcgctgtcag caacgctcag acggctgac agagaggac agaaagcaaa</p>	Homo sapiens

265	3860	G Protein- Coupled Receptor SLC/MCH1	NP_005288.1	ggcacctga MLCPSKTDGS GHSGRIHQET HGEGRDKIS NSEGRENGGR GFQMGGSLE AEHASRMSVL P RAKPMNSQR LLLSPGSP RSGISYINI IMPSVFGTIC LLGIIGNSTV IFAVVKKSKL HWCNNVPDIF IINLSVVDLL FLGLMPFMH QLMGNGVWHF GETMCTLITA MDANSQFTST YILTAMAI DR YLATVHPIS TKFRKPSVAT LVICLIWALS FISITPVWLY ARLIPFPGA VGGGIRLPNP DTDLWFTLY QFFLAFALPF VITAAKYRI LQRTSSVAP ASQSRILRT KRVTRTAIAI CLVFFVCWAP YYVLQTLQLS ISRPTLTFVY LYNAAISLGY ANSCLNPFVY IVLCETFRKR LVLSVKPAAQ GQLRAVNAQ TADEERTESK GT	Homo sapiens
266	3861	G Protein- Coupled Receptor GPR25	NM_005298	atggccccca cagagccctg gagccccagc cggggtgtcag cgccctggga ctactcgggg A ttggacggcc tggagagctt ggagctgtgt ccggccgggg acctgcccta cggctacgtc tacatccccc cgtctacctt ggcgcccttc gccgtgggcc tgcgtggcaa cgcctttgtg gtgtggctgc tggccgggag cggggggccc cggcggtctgg tggatacctt cgtgctgcac ctggcgggcag ctgacctggg ctctgtgtct acgtgcccgc tgtggggccc ggcggcggt aggcgggcgt ggccgtctgg cgtggtctgc tgcaagctca gcaagcttcg cgtggcgggc acgcgctcgg cggcgcgctt gctgctggcg ggcataagctt tggaccgcta cctggccctg gtgaagctgc tcgagggcag gccactgcgc acccccgctt cgccgtggc ctcgtgctgc ggcgtctggg ccgtggcgtt gctggccggc ctgccctccc tggctaccg ggggttgacg ccctgcctg gggggcaggga cagccagctc gtgctgcccc tggctgtcac cctctcttcg ctcagcttgc tgcgtgtgct gctgaccttc cctgcgacgg cggcgaggag cctccacggc tactgcgcga tctcggcccg cctgcgacgg ccgcgcagc tgggtcgggc ccgagaggaac tcgctgcgca tcactctgc cctcgtctgc catcgagagc cgtctgttgg gccctcagg gccctgcggg ccgtcttcca cctggcgctt cgtggggcgc tgcgctgccc gtgccccctg ctgctggcgc tgcgctgggg cctcaccatt gccacctgc tggccttcgt caacagctgc gccaaccgc tcactacct cctgctggac cgtcattcc gagcccgggc gctggacggg gcctgcgggc gcaccggccg cctggcgcgga aggatcagct cagcctctc gctctccagg gacgacagtt ccgtgttccg ttgccggggc caggccgcga acactgcctc ggcctcctgg tag	Homo sapiens
267	3861	G Protein- Coupled Receptor GPR25	NP_005289.1	MAPTEPWSFS PGSAWDYSG LDGLELELC PAGDLPYGYV YIPALYLAF AVGLLGNFV P VWLLAGRRGP RRLVDTFVLH LAAADLGFVL TPLWAAAAA RRPWFGDGL CKLSTFALAG TRSAGALLA GMSVDRYLAV VKLLEARPLR TPRCAVASCC GWAVALLAG LPSLVYRGLQ PLPGGQDSQC GEEPSHAFQG LSLLLLLTF VLPLVVTLC YCRISRLRR PPHVGRARN SLRIIFAIES TVGSWLPFS ALRAVHLAR LGALPLPCL LALRWGLTI ATCLAFVNSC ANPLIYLLD RSFRARLDG ACGRTRLAR RISSASSLSR DSSVFCRA QANTASASW atgatgtggg gtgcaggcag ccctctggcc tggctctcag ctggctcagg caactgtaat A gtaagcagcg tggggccagc agaggggccc acaggtccag cgcaccact gccctgcct aaggcctggg atgtgtgtgt ctgcatttca ggcaccttgg tgcctgcga gaatgcgcta gtggtggcca tcactgtggg cactcctgcc tccgtgccc cctgttctt gctgtgtggc agcctggccc tggcagacct gctggcaggc ctggggcctgg tcttgacctt gctgtgtgct ttctgcatcg gctcagcga gatgagctg gtgctgttg gcgtgtggc aatggcctt accgccagca tcggcagctt actggccatc actgtcgacc gctaccttc tctgtacaat	Homo sapiens
268	3862	G Protein- Coupled Receptor GPR3	NM_005281		Homo sapiens

Homo
sapiens

269 3862 G Protein-
Coupled
Receptor
GPR3 NP_005272.1 MMWGAGSPLA WLSAGSGNVN VSSVGPAGEP TGPAAPLPSP KAWDVVLCIS GTLVSCENAL P
VVAIIIVGTPA FRAPMFLVIG SLAVADLLAG LGLVLHFAV FCIGSAEMSL VLVGVLAMAF
TASIGSLAI TVDRYLSLYN ALTYSETTV TRTYVMIALV WGGALGLGLL PVLAWNCLDG
LTTTCGVVYPL SKNHLVVLAI AFFMVFGLM QLYAQICRIV CRHAQQIALQ RHLLPASHYV
ATRKGIATLA VVLGAFAACW LPFTVYCLLG DAHSPLYTY LTLLPATYNS MINPIIYAFR
NQDVQKVLWA VCCCCSSSKI PFRSRSPSDV

Homo
sapiens

270 3863 G Protein-
Coupled
Receptor
GPR31 NM_005299 atgccattcc caaactgctc agcccccagc actgtgtgtg ccacagctgt ggggtgtcttg A
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LSCLQFVLPF GLIVFCNAGI IRALQKRLRE PEKQPKLQRA QALVTLVAVL FALCFLPCFL
ARVLMHIFQN LGSCRALCAV AHTSDVTGSL TYLHSVNPV VYCFSSPTFR SSYRRVFHTL
RGKQAAEPP DFNPRDSYS

271 3863 G Protein-
Coupled
Receptor
GPR31 NP_005290.1 MPFPNCSAPS TWATAVGVL LGLECGLGLL GNAVALWTFE FRVRVWKPYA VYLLNLALAD P

272 3864 G Protein-
Coupled
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ccacattgcc tgaactttcc aacactccct agctgcgtg tgtcctatct caacacttcc
tcattgtatt ctgtgtctt ctagaacatt cccccgcat tattacttca atagggtac

Homo
sapiens

272 3864 G Protein-
Coupled
Receptor NM_005282 ctggtgacct tacttatctc tgttgctttc tgggggtccta ggaatgcca gcactcccc A
ccacattgcc tgaactttcc aacactccct agctgcgtg tgtcctatct caacacttcc
tcattgtatt ctgtgtctt ctagaacatt cccccgcat tattacttca atagggtac

Homo
sapiens

GPR4

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273	3864	G Protein- Coupled Receptor GPR4	NP_005273.1	ttcacagggc tcaccatata caagtaata aaaaatatgt aatgtttgga attgct MGNHTWEGCH VDSRDHLFP PSLYIFVIGV GLPTNCIALIW AAYRQVQQRN ELGVYLMNLS P IADLYICTL PLWDYFLHH DNWIHGPSC KLFGEFTYN IYISIAFLCC ISVDRYLAVA HPLREARLR VKTAVAVSSV VWATELGANS APLFHDELFR DRYNHTFCE KFPMEGWAW MNLRYVEVGF LFPWALMLLS YRGILRAVRG SVSTERQEKA KIKRLALSLI AIVLVCFAFY HVLILSRSAI YLGRPWDCGF EERFESAYHS SLAFTSLNCV ADPILYCLVN EGARSDNAKA LHNLRLFLAS DKPQEMANAS LTLETILTISK RNSTAKAMTG SWAATPPSQG DQVQLKMLPP AQ	Homo sapiens
274	3866	G Protein- Coupled Receptor GPR6	NM_005284	atgaacgcga gcgcgcctc gctcaacgac tcccagggtg tggtagtggc ggccgaagga A gcgcgcgcgc gcgcacagc agcagggggc ccggacacgc gcgaatgggg accccctgct gcgcgcgcgc taggagcgc gcgcgcgcgc aatgggtctc tggagctgtc ctgcagctg tcggctgggc caccggact cctgctgcca gcggtgaate cgtgggacgt gctcctgtgc gtgctgggga cagtgcgc gcgagaaac gcgctgggtg tggcgctcat cgcgtccact ccgcgcgcgc gcacgccat gttcgtgtg gttaggcagc tggccacgc tgacctgtg gcgcgcgcgc gctcatctt gcacttgtg ttccagtact tggcgccctc ggagactgtg agtctgctca cgggtggctt cctcgtggcc tccttcgcgc cactgtgcag cagcctgctg gccattacgc tggacgcga cctgtccctg tataacgcgc tcacctatta ctgcgcgcgc acctgtgtgg gcgtgcacct cctgctgccc gccacttggc ccgtgtccct aggcctgggg ctgctgcccgc tgctgggctg gaactgcctg gcagagcgcgc ccgcctgcag cgtggtgcgc ccgcctgggc gcagccactg gctcctgctc tcgcgcgcct tcttcattgt cctcggcatc atgctgacc tgtagctgcgc catctgcccgc gtcgtctggc gccacgcga ccagatgcgc ctgcacgac actgctgccc gccaccccat ctgcctgcca ccagaaaagg tgtgggtaca ctgctgtgtg tgctgggac tttcgggcgc agctggctgc ccttcgccat ctattgctg gtgggcagcc atgaggacc gcgcgtctac acttacgcca cctgctgccc cgcacccctc aactccatga tcaatcccat catctatgcc ttccgcaacc aggatatacca gcgcgcctg tgctcctgc tctgtggctg tttccagtc aaagtgcctc ttcgttccag gtctccacgc gaggtctga	Homo sapiens
275	3866	G Protein- Coupled Receptor GPR6	NP_005275.1	SQVVVVAEG AAAATAAGG PDTGEWPPA AAALGAGGGA NGSLSSQL P SAGPPGLLP ANPMDVLLC VSGTVIAGEN ALVVALIAST PALRTPMFVL VGLATADLL AGCGLILHFV FQYLPSETV SLITVGFIVA SFAASVSSL AITVDRLSL YNALTYYSRR TLGVHLLIA ATWTVSLGLG LLPVLGNCL AERAACSVVR PLARSHVALL SAAFFMVFGI MLHLYVRICQ VWRHAHQIA LQHCCLAPPH LAATRKGVGT LAVLGTFGA SWLPFAIYCV VGSHEPASY TYATLLPATY NSMINPIYA FRNQEIQRAL WLLLCGCFQS KVPFRSRSPS EV	Homo sapiens
276	3867	G Protein- Coupled Receptor GPR7	NM_005285	atggacaacg cctcgttctc ggagccctgg ccgcacaacg catcgggccc ggaccggcg A ctgagctgct ccaacgcgtc gactctggcg ccgctgcccgc gcgcgtggc ggtggctgta ccagtgtct acgcgcgtg ctgcgcgcgtg ggtctggcgc gcaactccgc cgtgctgtac gtgtgtgtgc gggcgcccc catgaagacc gtcaccaacc tgttcacct caacctggcc atcgccgacg agctcttcac gctgggtgtg cccatcaaca tcgcgactt cctgctgctg cagtggccct tcggggagct catgtgcaag ctcatcgtgg ctatcgacca gtacaacacc	Homo sapiens

277	3867	G Protein- Coupled Receptor GPR7	NP_005276.1	MDNASFSEPW PANASGPDPA LSCSNASTILA PLPAPLAVAV PVYAVICAV GLAGNSAVLY P VLLRAPRMKT VTNLFILNLA IADELFTLVL PINIADFLLR QWPFGEIMCK LIVAIQYNT FSSLYELTVM SADRYLVVLA TAESRRVAGR TYSAARAVSL AVWGIVTLVW LPFAVFAFLD DEQGRRCQVL VFPQPEAFWM RASRLYTLVL GFAPVSTIC VLYTTLCLRL HAMRLDSHAK ALERAKKRVF FLVAILAVC LLCWTPYHLS TVVALTTDLP QTPLVIAISY FITSLTYANS CLNPLYAFL DASFRRLRQ LITCRAAA	atgcaggccg ctgggaccc agagccctt gacagcagg gctccttctc cctccccacg A atgggtgcca acgtctctca ggacaatggc actggccaca atgcaacctt ctccgagcca ctgcccgttc tctatgtgct cctgcgccgc gtgactcgc ggatctgtgc tgtggggctg actggcaaca cggccgtcat ccttgtaatc ctaaggcgcc ccaagatgaa gacggtgacc aacgtgttca tccgtgaacct ggcctgcgc gacgggctct tcacgtggt actgcccgc aacatcgcg agcacctgct gcagtactgg ccttcgggg agctgctctg caagctgggtg ctggccgtcg accactacaa catcttctcc agcatctact tctagccgt gatgagcgtg gaccgatacc tgggtgtgct ggccacgtg aggtccgcc acatgccctg gcgcacctac cggggggcga aggtcgccag cctgtgtgtc tggctggcg tcaaggctct ggttctgccc ttcttctct tcgctggcgt ctacagcaac gagctgcagg tcccaagctg tgggctgagc ttcccgtggc ccgagcgggt ctggttcaag gccagcgtg tctacacttt ggtcctgggc ttcgtgctgc ccgtgtgcac catctgtgtg ctctacacag acctcctgc caggctgcgg gccgtggcg tccgctctgg agccaaggct ctaggcagg ccaggcgaa ggtgaccgtc ctggtcctcg tctgtctggc cgtgtgctc ctctgctgga cgccttcca cctggcctct gtcgtggccc tgaccacgga cctgccccag acccaactgg tcatcagat gtcctacgtc atcacccagc tcacgtacgc caactcgtgc ctgaacccct tctctacgc cttcttagat gacaaacttc ggaagaactt ccgcagcata ttgcggtgct ga	Homo sapiens
278	3868	G Protein- Coupled Receptor GPR8	NM_005286		atgcaggccg ctgggaccc agagccctt gacagcagg gctccttctc cctccccacg A atgggtgcca acgtctctca ggacaatggc actggccaca atgcaacctt ctccgagcca ctgcccgttc tctatgtgct cctgcgccgc gtgactcgc ggatctgtgc tgtggggctg actggcaaca cggccgtcat ccttgtaatc ctaaggcgcc ccaagatgaa gacggtgacc aacgtgttca tccgtgaacct ggcctgcgc gacgggctct tcacgtggt actgcccgc aacatcgcg agcacctgct gcagtactgg ccttcgggg agctgctctg caagctgggtg ctggccgtcg accactacaa catcttctcc agcatctact tctagccgt gatgagcgtg gaccgatacc tgggtgtgct ggccacgtg aggtccgcc acatgccctg gcgcacctac cggggggcga aggtcgccag cctgtgtgtc tggctggcg tcaaggctct ggttctgccc ttcttctct tcgctggcgt ctacagcaac gagctgcagg tcccaagctg tgggctgagc ttcccgtggc ccgagcgggt ctggttcaag gccagcgtg tctacacttt ggtcctgggc ttcgtgctgc ccgtgtgcac catctgtgtg ctctacacag acctcctgc caggctgcgg gccgtggcg tccgctctgg agccaaggct ctaggcagg ccaggcgaa ggtgaccgtc ctggtcctcg tctgtctggc cgtgtgctc ctctgctgga cgccttcca cctggcctct gtcgtggccc tgaccacgga cctgccccag acccaactgg tcatcagat gtcctacgtc atcacccagc tcacgtacgc caactcgtgc ctgaacccct tctctacgc cttcttagat gacaaacttc ggaagaactt ccgcagcata ttgcggtgct ga	Homo sapiens
279	3868	G Protein- Coupled Receptor GPR8	NP_005277.1	MQAAGHPEPL DSRGFSLPT MGVNSQDNG TGNATFSEP LPFLYVLLPA VYSGICAVGL P TGNTAVILVI LRAPKMTVT NVFILNLAVA DGLFTLVLP NIAEHLQYW PFGEILCKLV LAVDHYNIFS SIYFLAVMSV DRYLVVLATV RSRHMPWRTY RGAKVASLCV WLGVTVLVLP FFSFAGVYSN ELQVPSCGLS FWPWVWFK ASRVYTLVLG FVLVCTICV LYTDLLRRLR AVRLRSKAKA LGKARKKTV LVLVLAVCL LCWTFPHLAS VVALTTDLPQ TPLVISMYSV ITSLTYANSC LNPFLYAFLD DNFRKNFRSI LRC	Homo sapiens	

280	3869	G Protein- Coupled Receptor HM74	NM_006018	cgccactttg ctggagcatt cactaggcga ggcgctcat cggaactcact agccgcactc A atgaatcggc accatctgca ggatcacttt ctggaatatg acaagaagaa ctgctgtgtg ttccgagatg acttcattgc caagtggttg ccgcggtgtg tgggcttga gtttatcttt gggcttcttg gcaatggcct tgccctgttg atttctgtt tccacctcaa gtcctggaaa tccagccgga tttctctgtt caacctggca gtactgactg ttctactgat catctgcctg ccgttcgtga tggactacta tgtgcggcgt tcagactgga actttgggga catcccttgc cggtcgtgac tcttcattgt ttccatgaac cgccaggga gcatcatctt cctcacgggtg gtggcggtag acaggtattt ccgggtgttc catccacc acccctgaa caagatctcc aatggacag cagccatcat ctcttgctt ctgtgggga tcaactgttg cctaacagtc cacctctga agaagaagt gctgatacag aatggcctg caaatgtgtg catcagcttc agcatctgcc ataccttcg gtggcagaa gctatgttc tcttgagtt cctcctgccc ctgggcatca tctgtttctg ctacgacga attatctga gctgaggga gagacaaatg gaccggcatg ccaagatcaa gagagccatc acctcatca tgggtgtggtg catcgtcttt gtcatctgct tcttctccag cgtggtgtg cggatcgca tcttctggt cctgcacact tcgggcacgc agaattgtga agtgtaccg tcggtgggac tggcgttctt tatcactctc agcttcaact acatgaacag catgctggac ccgtgtgtg actactctc cagccatcc tttcccaact tcttctccac ttgatcaac cgtgctcc agaggagat gacaggtgag ccagataata accgcagcac gagctcgag ctacacaggg acccaacaa aaccagaggc gtccagagg cgttaatggc caactcgtt gagccatga gccctctta tctggggcca acctcaata accttccaa gaaggacat tgtcaccaag aaccagatc tctggagaaa cagttgggct gttgcacga gtaatgtcac tggactcgc ctaaggtttc ctggaacttc cagattcaga gaatctgatt tagggaaact tggcagatg agtgggagac tgggtgcaag gttgaccac aggaatcctg gaggaacaga gataaagct tctaggcatc tgaacttgc ttcatctctg acgctcgag gactgaagat gggcaaatg taggcgttct tctgagcag agttggagcc agagatctac ttgtgacttg ttggccttct tcccacatct gctcagact gggggggct cagctcctg ggtgatatct agcctgcttg ttagctctag cagggataag gagagctgag attggaggga attgtgttgc tctggaggga agccaggga tcattaaaca agcagtagg tcacctggct tccgtggacc aattcatct tcagacaagc tttagagaaa tggactcagg gaagagactc acatgcttgg gttagtatct gtgttccgg tgggtgtaat aggggattag cccagagg gactgagcta aacagtgtta ttatgggaaa ggaatggca ttgctgcttt caaccagca ctaatgcaat ccattctct cttgtttata gtaacttaag ggttgagcag ttaaacggc ttacagatag aaagctgtt cccacctgtt tctgtttacc attaaaaggg aaacgtgct ctgccccacg gtagagaggg gtgcacgttc ctcctgggtc ctcgtctgt gttctgtac ttaccacaa a tctaccactt caataaattt tgataggaga caaaaaaaaaa	Homo sapiens
281	3869	G Protein- Coupled Receptor HM74	NP_006009.1	MRHHLDHF LEIDKKNCCV FRDDFIKVL PPVLGLETF GLLGNGLW IFCFLKSWK P SSRIFFENLA VADFLIICL PFVMDYVRR SDWNFGDIPC RLVLMEFAMN RQSIIFLTV VAVDRYFRV HPHHALNKIS NWTAAIISCL LWGITVGLTV HLLKKLLIQ NGPANVCISF SICHTFRWE AMELLEFLP LGIILFCSAR IISLRQRQM DRHAKIKRAI TFIMVAIVE VICFLPSVV RIRIFWLHT SGTQNCVYR SVDLAFFITL SFTYMSMLD PVVYFSSPS FPNFFSTLIN RCLQRKMTGE PDNRRSTVE LTGDPNKTRG APEALMANS EPWSPSYLGP	Homo sapiens

282	3870	G Protein-Coupled Receptor OGRI	NM_003485	TSNNHKKKGH CHQEPASLEK QLGCCIE.	atggggaaca tcactgcaga caactctctg atgagctgta ccatcgacca taccatccac A cagacgctgg ccccggtggt ctatgttacc gtgctggtgg tgggtctccc ggccaactgc ctgtccctct acttcggcta cctgcagatc aaggcccgga acgagctggg cgtgtacctg tgcaacctga cgggtggcga cctcttctac atctgtctgc tgccttctg gctgcagtac gtgtgcagc acgacaactg gtctacggc gactgtcct gccaggtgtg cggcattctc ctgtacgaga acattacat cagctgggc ttctctgtt ccatctccgt ggaccgttac ctggctgtgg cccatccctt ccgcttccac cagttccgga cctgaaggc ggccgtcggc gtcagcgtgg tcactctggc caaggagctg ctgaccagca tctacttctt gatgcacgag gaggtcatcg aggacagaa ccagcacgc gtgtgctttg agcactacc catccaggca tggcagcgcg ccataacta ctaccgttc ctggtgggt tctcttccc catctgctg ctgtggcgt cctaccaggg catctgcgc gccgtgcgc ggagccacgg caccagaag agccgaagg accagatcca cgggctggtg ctacagaccg tggcatctt cctggcctgc ttctgcctt accagtggt gctgctggtg cgcagctctt gggagggcag ctgagcttc gccaaaggcg ttttcaacgc ctaccattc tctctctgc tcaccagctt caactgcgtc gccgaccccg tgctctactg ctctgtcagc gagaccacc accgggacct ggcccgcctc cgcggggcct gcctggcctt cctcacctgc tccaggaccg gccggggcag ggaggcctac ccgctgggtg ccccgaggc ctccgggaaa agcggggccc aggtgagga gcccgagctg ttgaccaagc tccaccggc ctccagacc cctaacctgc cagggtcggg cgggttcccc acgggcaggt tggcctag	Homo sapiens
283	3870	G Protein-Coupled Receptor OGRI	NP_003476.1	MGNITADNSS ICSTLPFWLQY VLQHDNWSHG DLSCQVCGL LYENIYISVG FLCISVDRY LAVAHPRFH QFRTLKAAVG VSVIWAHEL LSIYFLMHE EVIEDENQHR VCFEYPIQA WQRAINYYRF LVGFLFPICL LLASYQGILR AVRRSHGTQK SRKDIQRLV LSTVIFLAC FLPYHVILLV RSVWEASCDF AKGVFNAYHF SLLTSTNCV ADPLYCFVS ETTHRDRLRL RGACLAFLTC SRTGRAREAY PLGAPEASGK SGAQGEPEL LTKLHPAFQT PNSPGSGGFP TGRLA	Homo sapiens	
284	3921	Prostacyclin Receptor	NM_000960	agcaagtga ggcacagacg caggggacag gagagcctgg gcaagactgg agagcccaga A cctgggatgg cggattcgtg caggaacctc acctacgtgc ggggtcgtgt gggcccgcc accagcacc tgatgttcgt ggcgggtgtg gtgggaacg gctggccctt gggcatcctg agcgcacggc gaccggcgcg cccctcgcc ttccgggtgc tggtaaccg actggcgcc accgacctgc tgggacccag ctctctgagc ccgcccgtgt tctgtggcta tgcgcgcaac agctccctgc tgggctggc ccgagggcg cccgcccgtt gcgatgcctt cgccttcgcc atgaccttct tcggcctggc gtccatgctc atctctttt ccatggcctt ggagcgtgc ctggcgctga gccacccta cctctacgc cagctggacg ggcgccgtg cgcgcctg gcgtgccag ccattacgc ctctgctgc ctcttctgc cgtgcccc gctgggctg ggccaacacc agcagtactg ccccgagc tgggtacttc tccgcatgcg ctggggccag ccgggcggcg ccgcttctc gctggcctac gccggcctgg tggccctgct ggtggctgcc atcttctct gcaacggctc ggtaccctc agcctctgcc ccatgtacc ccagcagaag cgccaccagg gctctctggg tccacggcg cgcaccggag aggacgaggt ggaccacctg	Homo sapiens	

285	3921	Prostaglandin NP_000951.1 Receptor	atcctgtg cctcatgac agtggtcatg gccgtgtgct cctgtcctct cactgacgcg tgcttacc aggtgtgc cctgacagc agcagtga ga tggggaccc cctgtccttc cgcttctacg ccttcaacc cactctggac ccttggttct tcatctttt cgcgaaggct gtcttccagc gactcaagct ctgggtctgc tgcctgtgct cgggacctgc ccacggagac tcgcagacac ccttttccca gctgcctcc gggagagagg acccaaggcc cccctctgct ctgtgtggaa aggaggggag ctgctgctt tctgctgctt ggggagagg gacgtgtgag cccttgctc ccacacagca gtcagcgcc agcgcctgg gacgtcgtc caaagcagaa gccagcgctg cctgtcctt ctgtgacat ttcaagctga cctgtgac tctgcccctg cttggggcga caggagccag aaatcagg acatggctga tggctggga tctgggaacc ttggccccc aactctggg cgcacagct gctgttctc ctgcccaggg gcagtgcgtg ctggctctgg gaagagagt agggacagag gaaacgttta tcttgagatg cagaaagaat ggttctctca aaataaccag tggcctggcc gacctgctt ggcctggat tccccatcca tctcattgtc taaatattta gaaggagg agttccac aggttctgt acagtcaagt ctgctctggt ctgggtgctg gctccaatct gctccaactt aggagccca actgcccacc ccaagtccc aggggatgg cctcccctc taccagcca cctcaagagc cagccccctt tctgtccac aaaaaccaca gttattggaa aagctccctg ccttccctg ccgtgtgtcc cccacaggc ttgggagccc tggcatccca aaggggcaac gggaggaagg ggaggtgct gcattgtgg tgatgacgta ggacatgtgc ttggtacaaa aaggcctga gacattccac ct	Homo sapiens
286	3923	Prostaglandin U31099 n D2 Receptor	MAUSCRNLTY VRGSGVPATS TLMFVAGVVG NGLALGILSA RRPAPSAFA VLVTLAATD P LLGTSFLSPA VFVAYARNSS LLGLARGGPA LCDAFAPAMT FFLASMLIL FAMAVERICLA LSHPYLYAQL DGPRCARLAL PAIYAFVLF CALPLILGQ HQYCPGSC FLRMRWAQPG GAFLSLAYAG LVALIVAIF LCNGSVTLSL CRMYRQKRH QGSLGPRPT GEDEVHLLIL LALMTVMVAV CSLPLTIRCF TQAVAPDSS EMGDLLAFRF YAFNPILD PW VFILFRKAVF QRLKLWVCC LCLGPAHGDSDQ TPLSQLASGR RDPRAPAPV GKEGSCVPLS AWGEGQVEPL PPTQSSGSA VGTSSKAEAS VACSLC gctgtgcaac ctggcgcca tgcgaacct ctatgcgatg caccggcgcc tgcagcgga A ccgcgctcc tgcaccaggg actgtgccga gccgcgcgcg gacgggaggg aagcgtcccc tcagccccctg gaggagctgg atcacctctt gctgtggcg ctgatgaccg tgccttcac tatgtgtct ctgccgtaa tttatgcgc ttactatgga gcatttaagg atgtcaagga gaaaacagg acctctgaag aagcagaaga cctccagcc ttgcgattc tatctgtgat ttcaattgtg gaccttgga tttttatcat ttccagatct ccagtattc gatatattt tcacaagatt ttcatagac ctcttagta caggagcggg tgcagcaatt ccactaacat ggaatccagt ctgtgacagt gtttttcaact ctgtggtaag ctgagggaata tgcacattt tcagtcacaa aacca MKSPFYRCQN TTSVEKNSA VMGGVLFSTG LLGNLLALGL LARSGLGWS RPLRLPLPSV P FYMLVGLTV TDLLGKLLS PVLLAAYQN RSLRVLAPAL DNSLQAF AF FMSFFGLSST LQLLMALEC WLSLGHFFY RRHITRLGA LVAPVVSASF LAFALPFMG FGKVVQYCPG TWCFTQVHE EGSLSVLGYS VLYSSIMALL VLATVLCNLG AMRNLYAMHR RLQRHPRST RDCAEPRADG REASQPLEE LDHLLLLALM TVLFTMCSLP VIYRAYGAF KDVKEKNRTS EEAEDLRALR FLVSIVISVDP WIFIIFRSPV FRIFHHKIFI RPLRYRSRCS NSTNMESL	Homo sapiens
287	3923	Prostaglandin Q13258 n D2 Receptor		Homo sapiens

288	3924	Prostaglandin E Receptor EP1	NM_000955	<p>ggggcgggca gggctgagcg gccgtgtgatg gggaccocac atcccaggca gtcccgccac A</p> <p>ccttggcgcc tgacatgagc ccttggggc cctcaacct gagcctggcg ggcgagcgca</p> <p>ccacatgagc ggcgccttgg gtcccaaca cgtcgccgtg gccgcctcg ggcgttcgcg</p> <p>ccgcgtgccc catcttctcc atgacgtgg gccgcgtgtc caacctgtg gcgctggcg</p> <p>tgctggcgca ggcgcgggc cgcctgcgac gccgcgtc gccaccacc ttcctgtgt</p> <p>tgctggccag cctgtggcc accgacctgg cggcgacctg gataccggcg cgcgtgtgtc</p> <p>tgctgtgta cactcgggg ccgcctccg ccggcgggcg ctgccactc ctggcgcgct</p> <p>gcatggtctt ctccggcctg tgcccgctgc tgctgggctg tggcatggcg gtggagcgct</p> <p>gcgtggcgct cagcgggcg ctgctccag ccgcggcggt ctcggtcgcc cgcgcgcgc</p> <p>tgccgctggc ccggttggcc gcgtggcct tggccgtggc gctgtggcg ctggcgcgcg</p> <p>tgggccgcta tgagctgcag taccgggga cgtggtgctt catcgccgtg ggtcccccgg</p> <p>gcggtggcg ccaggcactg cttgtggcc tcttcgcag cctcgccgtg gtcgcgtcc</p> <p>tgccgcgct aggttgcaac acgtcagcg gccctggcct gcctggcgcc cgtggcgac</p> <p>gccgtcccg aggcctccc ccggcctcag gcccgcagc ccgctgtcgc tggggggcg</p> <p>acggaccccg ctggcgctcc gcctgtcgc cctcgctccat cgttcggcg tccacctct</p> <p>ttggcggtc tcggagcagc ggctcggaac gcagagctcg cgcacacac gtggagatgg</p> <p>tgggccagct tgcgtgtatc atggtgtgt cgtgcactg ctggagccca atgctgtgt</p> <p>tggtggcgct ggcgtcgcc gcctggagct ctacctcct gcagcgcca ctgttcctgg</p> <p>ccgtgcgct tgcctcctgg aaccagatcc tggaccttg ggtgtacatc ctactgcgc</p> <p>agcccggtgt ccgccaactg cttcgctctt tgcccccgag ggccggagcc agggcgggc</p> <p>ccgcggggct gggcctaaca ccgagcgct ccgagggcg cctcgctgcg agtcccccgc</p> <p>acagcgcgct cagccactc taagcacaac cagagggcca acgactaagc cagccacccc</p> <p>tggtctggcg ccaggtgcg ccgcgagcg ctttgggaat aaaaagccat tctgcg</p>	Homo sapiens
289	3924	Prostaglandin E Receptor EP1	NP_000946.1	<p>MSPCGPLNLS LAGEATCAA PWVNTSAVP PSGASPAIFI FSMTPLGAVSN LIALALLAQA P</p> <p>AGRLRRRSA TTFLLFVASL LATDLAGHVI PGALVRLYT AGRAPAGGAC HFLGGCMVFF</p> <p>GLCPLLLGCG MAVERCVGVT RPLLHAARVS VARARLALAA VAAVALAVAL LPLARVGRYE</p> <p>LQYPGTWCFI GLGPPGWRQ ALLAGLEASL GLVALLAALV CNTLSGLALH RARWRRSRR</p> <p>PPASGPDNR RRMGAHGPRS ASASSASSIA SASTFFGCSR SSGSARRARA HDVEMVQQLV</p> <p>GIMVVSICW SPMLVLVALA VGGWSSTSIQ RPLFLAVRLA SNQILDPMV YILLRQAVLR</p> <p>QLRLPLPPRA GAKGGPAGLG LTPSAWEASS LRSSRHSGLS HF</p>	Homo sapiens
290	3925	Prostaglandin E Receptor EP2	NM_000956	<p>gggcccgcgt cggcgcgctg ggtgcgggaa gggggtctcg gatttcggc cctcccttt A</p> <p>ttcctctgag tctcggaacg ctccagctct cagacctct tctctccagg taaaggccgg</p> <p>gagagggagg cgcactctct ttccaggcac ccacacatgg gcaatgcctc caatgactcc</p> <p>cagctgagg actgcgagc gcgacagtgg cttccccag gcgaagccc agccatcagc</p> <p>tccgtcatgt tctcgcccg ggtgtgggg acctcatag cactggcgt cgtggcgcg</p> <p>cgtggcggg gggacgtgg gtgcagccc ggcgcgaga cctccctct ctgttccac</p> <p>gtgctgtga ccgagctgt gtccaccgac ctgctcgga cctgcctcat cagccagtg</p> <p>gtactggctt cgtacgcgcg gaaccagacc ctggtggcac tggcgccga gagccgcgcg</p> <p>tgacactact tgccttgcg catgacctc ttacgacctg ccacgatgt catgctctc</p> <p>gccatggccc tggagcgcta cctctcgatc gggcaccctt acttctacca gcgcgcgcg</p> <p>tcggcctccg ggggcctggc cgtgctgctt gcactctatg cagtctcct cgtctctcgc</p>	Homo sapiens

291	3925	Prostaglandin E Receptor EP2	NP_000947.1	<p> tgcctgccgc tgctggacta tgggcagtag gtccagtagt gccccgggac ctggtgcttc atccggcacg ggcgaccgc ttacctgcag ctgtacgaca ccctgctgct gcttctcatt gtctcgggtgc tgcctgcaaa cttcagtgct attctcaacc tcaccgcat gcaccgcga agccggagaa gccgtgaggg acctccctg ggcagtgccc gggcgggccc cctggctatc aggagagggg aaagggtgct catggcgag gagacggacc acctcattct cctggctatc atgaccatca ccttcgctg ctgctcctg ccttcacga ttttgcata tatgaatga acctctccc gaaaggaaaa atgggacct caagctctta gttttttatc aattaattca ataattgacc ctgggtctt tgccatcctt aggcctcctg ttctgagact aatgcgttca gtcctctgtt gtcggatttc attaagaaca caagatgcaa cacaaacttc ctgttctaca cagtcagatg ccagtaaca gctgacctt tgaggtcagt agtttaaaag ttcttagtta tatagcatct ggaagatcat ttgaaattg ttccctggag aatgaaaaac agtgtgtaaa caaatgaag ctgccctaata aaaaaggagt atacaaacat ttaagctgtg gtcaaggcta cagatgtgct gacaaaggcac ttcatgtaaa gtgtcagaag gagctacaaa acctaccctc aatgagcatg gtactggcc ttggaggct caatcgctg catgaaagt ccagctgctt attgatttaa gcttccctg tgaatgacaa agtatgtgtt ttgttaattt gttgaaacc ccaaacagtg actgtacttt ctattttaat ctgtactata cgtttataca catatagtgt acagccagac cagattaaac ttcatatgta atctcagga agtcaaatg tggaagcaac caagcctgct gtcttgtagt cacttagcga acctttatt tgaacaatga agttgaaaaat cataggcacc ttttactgtg atgtttgtg atgtggagt actctcatca ctacagtatt actcttaca gactggactc agtgggttaa cataagtttt gttactcat cctccaggaa ctgcaggta agtgtcagg ttatttattt tataatgtcc atagtcaat agtgatcaag aagactttag gaatgttct ctcaacaaga aataatgaa atgtctcaa gcagttaatt ctcataata ctcttattat cctattctg ggggaggagt tacgtggcca tgtatgaagc caaatattag gcttaaaac tgaataatct ggttactct tcagatatac tggaaccctt ttaaagttga tattggggcc atgagtaaaa tagattttat aagatgactg tgtgtacca aaattcatct gtctataatt tatttagggg aacatgggtt gactcatctt atatgggaaa ccatgtagca gtgagtcata tcttaataa ttctaaatg ttggcagtg aatgtaaac tcagcatcaa aatattcag tgaattgca ctgtttaatc atagtactg tgtaaaactca tctgaaatgt tacaaaaata aactataaaa ca </p>	Homo sapiens
292	3926	Prostaglandin E2 Receptor EP3	L32662	<p> MGNASNDQS EDCETRWLP PGESPAISSV MFSAGVLGNL IALALLARRW RGDVGSAGR P RSSLSPHVL VTELFTDLL GTCLISPVVL ASYARNQTLV ALAPESRACT YFAFAMTFES LATMLLFAM ALERYLSIGH PYFYQRRVSA SGLAVLPVI YAVSLFLCSL PLLDYGYVQV YCPGTWCFIR HGRTAYIQLY ATLLLLIVS VLACNFVIL NLIRHRRSR RSRGSPSLGS GRGGPGARRR GERVSMAEET DHLILLAIMT ITFAYCSLPF TIFAYMNETS SRKEKWDLOA LRFLSNSII DPWFALIRP PVLRLMRSLV CCRISLRTQD ATQTSCTQS DASKQADL atgagaaaaa gaagactcag agagcaagag gaattttggg gaaattaa A </p>	Homo sapiens
293	3926	Prostaglandin E2 Receptor EP3	NM_000957	<p> accagagggt tcccagagag gaaggcgtgg ctccctcccg ggccagtgag ccctggcgcc A gccggggccg cggctccagc agcgagtag ggcgcggt gcgccccga ccatggggg cagccccagc ccagcgcggt taaacgcga cctccggcgc cgccccgcgc gcgtctgccc </p>	Homo sapiens

294	3926	Prostaglandin E2 Receptor EP3	NP_000948.1	<p> cctcccgctg cggctctctg gacgccaacc cctcctcacc tcgaagccaa catgaaggag acccgggct acgagggga tgccccttc tgaccgcgc tcaaccact ctacacaggc atgtgggcgc ccgagcgttc cgcgagggcg cggggaacc tcacgcgcc tccagggtct ggcgaggatt gcgcatcggt gtccgtggcc ttcccgatca ccatgctgct cactggtttc gtgggcaacg cactggccat gctgctcgtg tcgcgcagct accgggcgcg ggagagcaag cgcaagaagt ccttcctgct gtgcacggcg tggtggcgcc tcaccgacct ggtcgggcag ctctcacca ccccgctcgt catcgtcgtg tacctgcca acagcgttg ggcacacatc gaccgctcg ggcggtcctg caccttttc ggcctgacca tgactgtttt cggcctctcc tcgttgttca tcgcagcgc catggcgctc gagcgggcg tgcccatcag ggcgcgcac tggtagcga gccacatgaa gacgcgtgcc acccgctg tgctgctcg cgtgtggctg gccgtgctcg ccttcgccct gctgcgggtg ctggcggtgg gccagtacac cgtccagttg cccgggaact ggtgcttcat cagcacccgg cgagggggca acgggactag ctcttcgcat aactggggca acctttctt cgcctctgcc ttgacctcc tggggctctt ggcgtgaca gccacggcat ctacgtccag tgcccagtg ggcgcgcatca gcaccgagac gccattcag cttatgggga tcatgtcgt gctgtcgtc tgctggtctc cgtcctgat aatgatgttg aaaatgatct tcaatcacac atcagttgag cactgcaaga cacacacga gaagcagaaa gaatgcaact tcttctaat agctgttcgc ctggcttcac tgaaccagat cttggatcct tgggtttacc tgctgttaag aaagatcctt ctccgaaagt ttgcccagat gaaaaaaga agactcagag agcaagat ggggctgat ggaaggtgtt ttgtcgtc atggaggcag gtcccagga ctgtgtgcag ttctcatgat agagaaacct cagtggtcca gctaagctga tgactgaag ataaatctgc ctaccctgg gatgaagtat cgtgaaacta ttttgacagc agatgagaa ttttgggaa attaaaacct gccttctgc caggatcaca tccctggaag ctccatgact ctcttttgt aaaagaaaa aaatcacag aaacaccac ctccaaact attcttttt acttctccc ccaagccac ccccaaatat aactgttat cagaagctgt tatgtcctgt ttccatacat gttttgtac ttttactata tctacatata tcaattaaac ttatgtccta ttgttttgt aatttatatt tgcgtataca ttatcatatg taaaatttgc attttttat tgaaaattat gtttcttgag atttatccac attgaaacat ggagctctaa atcgtttaatt ttaaccgcta tagagtattc cataaattga ataaagcata atttgtttgt ac </p>	Homo sapiens
295	3927	Prostaglandin E Receptor EP4	NM_000958	<p> cggcacagcc tcacactga acgctgtcct ccgcagacg agaccggcg gcactgcaa A gctgggactc gtctttgaag gaaaaaaat agcgagtgaag aaatccagca ccattcttca .ctgacccatc ccgctgcacc tctgttttcc caagtttttg aaagctggca actctgacct cgggtgtccaa aaatcgacag ccaactgagac cggctttttag aagccgaaga ttggcagtt </p>	Homo sapiens

296	3927	Prostaglandin E Receptor EP4	NP_000949.1	<p> tccagactga gcaggacaag gtgaaagcag gttggagcgg ggtccaggac atctgagggc tgacctggg ggctcgtgag gctgccaacg ctgctgcgcg tacagacca gccttgcaat ccaaggctgc gcaccgcag ccaatacat gtccactccc ggggtcaatt cgtccgcctc cttgagcccc gaccggctga acagccaggt gacctccccg gcggtgatgt tcatcttcgg ggtggtgggc aacctggtgg ccatcgtggt gctgtgcaag tcgcgcaagg agcagaaggga gacgaccttc tacagctgg tacagctgg gctgtggct gacctgtgg gcaatttgtt ggtgagcccc gtgacctcg ccacgtacat gaaggccaa tggccccggg gccagccgtt gtgcgagtac agcaccttca ttctgctctt cttcagctcg tccggcctca gccatcatctg cgccatgagt gtcgagcgtt acctggccat caacctgctt ttttctaca gccactacgt ggacaagcga ttggcgggct tcacgctctt tgcagtctat gcgtccaaag tgctcttttg cgctgctccc aacatgggtc tcggtagctc gcggtgcag taccagaca cctggtgctt catcgactgg accaccaacg tgacggcgca cgcgcctac tcctacatgt acgcgggctt cagctcttc ctcatctcg ccaccgtct ctgcaactg cttgtgtgct gcgctgct cgcgatgcac cgcagttca tgcgcgcac ctgctgggc accgagcgc accacgcgc cgcgccgctc tcggtgctt ccgggggcca cccgctgct tccccagct tgcgcgctt cagcgacttt cggcgccgct ggagcttcg cgcgctgcg cgcgcgcaga tccagatggt catcttactc attgcaact cctggtggt gctcatctgc tccatccgc tctggtgctg agtattcgtc aacagttat atcagccaag ttggagcga gaagtacgta aaaatccaga tttgaggcc atccgaattg cttctgtgaa cccatccta gacccctgga tatatatctt cctgagaaag acagtgtca gtaaaagcaat agagaagatc aaatgcctt tctgcgcgat tgcggggtcc cgcaggagc gctccggaca gactgcba gacagtcaa ggacatcttc tgccatgtca gccaactc gctcctcat ctccgggag ctgaaggaga tcagcagtag atctcagacc ctctgcgag acctcact gccagacct agtgaagaatg ccttgagg caggaattg cttccaggtg tgcctggcat ggccctggc caggaagaca ccactcact gaggactttg cgaatacag agacctaga ctcttcacag ggtcaggact cagagagtgt cttactggtg gatgagctg gtgggagcg caggcctggg cctgccccca agggagctc cctgcaagtc acatttcca gtgaacact gaacttatca gaaaaatgta tataataggc aaggaagaa atacagtact gttctggac cttataaaa tctgtgcaa tagacacata catgtcacat ttagctgtg tcagaagggc tatcatca MSTPGVNSSA SLSPDRINSP VTIPAVMFIF GVGNLVAIV VLCKSRKEQK ETTFTLVCG P LAVTDLIGTL LVSPVTIATY MKGQWPGQP LCEYSTFILL FFSLSGLSII CAMSVERYLA INHAYFYSHY VDKRLAGTL FAVYASNVLF CALPNMGLGS SRLQYPTWC FIDWTTNVT HAAYSVMYAG FSEFLIATV ICNVLVCGAL LRMHRQFMR TSLGTEQHA AAAASVASRG HPAASPALPR LSDFRRRSF RRIAGAEIQM VILLIATSI V LICSIPLV RVFVNQLYQP SLEREVSKNP DLQAIRIASV NPILDPIYI LLRKTVLKSA IEKIKLFCR IGGRRRERSG QHCSDSQRTS SAMSGHSRFS ISRELKEISS TSQTLPLDLS LPDLSNGLG GRNLLPGVPG MGLAQEDTTS LRTLRISETS DSSQGDSES VLLVDEAGGS GRAGPAPKGS SLQVTFPSET LNLSEKCI </p>	Homo sapiens
297	3928	Prostaglandin F2-alpha Receptor	NM_000959	<p> ggcgcggggc gccatggcac accgagcggc tccgtctctt gctcctcaga gagccccgt A ggcgccctgg gatgacaaga tgtctgact gcaatcctgc acagtttga gagggagatg acttgagtgg ttggccttta tctccacaac aatgtccatg aacaattcca aacagctagt </p>	Homo sapiens

gtctcctgca gctgcgcttc ttcaaacac aacctgccag acggaaac ccgtttccgt
atTTTTtca gtaatcttca tgacagtggg aatctgtca aacagccttg ccategccat
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aatatataaa ttcaagact atctgcagct agtgtgttct tcttttacac acatatcac
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taattgagac tttttcttg cttgtttgtg taattcaacc aaagaattt caatacccat
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tgtatttctg tataagattt ctttgcttct attaaaaatg ggatttcatt aaaaattaat
cttccctgt taggctgatt tcagattctc taggaattct ggtgaagtaa ccagaagact

298	Prostaglandin F2-alpha Receptor	NP_000950.1	MSMNKQLV SPAALLSNT TCQENRLSV FFSVIFMTVG ILSNSLAIAI LMKAYQRFQ P KSKASFLLA SGLVITDFG HLINGAIAVF VYASKEWIR FDQSNVLC SI FGICMVFSGL CPLLLGSVMA IERCIGVTKP IFHSTKITSK HVKRMISGVC LEAVFIALLP ILGHRDYKIQ ASRTWCFYNT EDIKDWEDRE YLLLFSLFLG LALGVSLICN AITGITLLRV KFKSQHRQG RSHHLEWVIQ LLAIMCVSCI CWSPFLVTMA NIGINGNHSI ETCETILFAL RMATWNQILD PWVYILLRKA VLKNLYKLAS QCCGVHVISL HIWELSSIKN SLKVAALISES PVAEKSAST cggcccgccc tggggaggcg cgcagcagag gctccgattc ggggcagggtg agaggctgac A tttctctcgg tgcgtccagt ggagctctga gtttcgaatc ggtggcggtg gatccccgc ggcggcggtg tgggggttc caggaggtg cggagcctcc cggcggtg gctgctggg ggcgcctcc tgcagcagc ctctctctcc tgcagtgga ccatccagg aaccaataga tccctctaaag gaagaagcct tatgtgtaag gttgtaggca catccacgt cactggaaaa ggagttacag ttgaacacgt cttttctgtg gatgagtttt ctgcatctgt cctcactgga aaactgacca cgggtctcct tccaattgtc tacacaattg tgtttgtggt gggtttgcca agtaacggca tggccctgtg ggtctttctt ttcgaacta agaagaagca cctgctgtg attacatgg ccaatctggc ctggctgac ctccctctg tcatctggtt ccccttgaag attgctatc acatacatgc caacaactgg atttatggg aagctctttg taatgtgctt attggctttt tctatggcaa catgtactgt tccattctct tcatgacctg cctcagtggt cagaggtatt gggctatcgt gaaccccatg gggcactcca ggaagaaggc aaacattgcc attggcatct ccttgccaat atggctgctg attctgctg tcaaccatccc ttgtatgtc gtgaagcaga ccatcttcat tctgcccctg aacatcacga cctgtcatga tgttttgctt gaggagctct tgggtgggaga catgttcaat tacttctct tctgtggcat tgggggtctt ctgttcccag ccttctctac agcctctgccc tatgtgctga tgatecgaat gctgcgact tctgcatgg atgaaaactc agagaagaaa aggaagaggg ccatcaaat cattgtcact gtccctggcca tgaacctgat ctgcttcat cctagtaacc ttctgcttgt ggtgcattat tttctgatta agagccaggg ccagagccat gctatgccc tgtacattgt agccctctgc ctctctaccc ttaacagctg catcgacccc ttgtgttatt actttgtttc acatgatttc agggatcatg caaagaacgc tctcctttgc cgaagtgtcc gcactgtaaa gcagatgcaa gtatccctca cctcaagaa acactccagg aaatccagct cttactcttc agttcaacc actgttaaga cctcctattg agttttccag gtccctcagat gggaaattgca cagtaggagc tgggaacctgt ttaattgtat gaggacgtgt ctgttatttc ctaatacaaa aggtctcacc acataccacc g	Homo sapiens
299	Proteinase-Activated Receptor 2	NM_005242	gagagacatc aaaaattaaa aaaaaaaaaa aaaaa ttcagatggt ttatttgctt tcagcagaga atttatttca tacagtact taagatggt gatgtcttga gaaagaaacc attctccatc ctctctatc atgctgggta caatgcttct atgaatattt ccatgtattt tgactgggga gaggcatgga gaagaaactc tcattcagg gctccaggat ccttctctt gaggcttcta aataaatggc agaattcttg ctgtattgcc atgatgtcac cctggccatg tgtactgact tgaggagatc ttgcaacatg gccatgtgca agcctttaag gagttagaga gatgtgtaca tatcttagga gggttatcta tgttatctga gtatatgtt ggttaaccaa attggtctta aaaaatgatgt taaccaaga agtagacatc aaaaattaaa aaaaaaaaaa aaaaa	Homo sapiens
300	Proteinase-Activated Receptor 2	NP_005233.2	MRSPSAWLL GAAILLAASL SCSGTIQGTN RSSKGRSLIG KVDGTSHTVG KGVTVEVFS P VDEFSASVLT GKLTITVFLPI VYTIIVVVGL PSNGMALWVF LFRTKKKHPA VIYMANLALA	Homo sapiens

Receptor 2	4052	Proteinase- Activated Receptor 3	NM_004101	<p>DLLSVIWFPL KIAYHIHANN WIYGEALCNV LIGFFYGNMY CSILFMTCLS VQRYWVIVNP</p> <p>MGHSRKKANI AIGISLAIWL LILLVTIPLY VVKQTIPIPA LNITTCDDVL PEQLLVGDMF</p> <p>NYFLSLAIGV FLPPAFLTAS AYVLMPLMR SSAMDENSEK KRKRAIKLIV TVLAMYLICF</p> <p>TPSNLLLVVH YFLIKSQQS HVYALYIVAL CLSTLNSCID PFVYFVSHD FRDHAKNALL</p> <p>CRSVRTVKQM QVSLTSKKHS RKSSSYSSSS TTVKTSY</p> <p>ctgacctgca cggcacagga gagcaaaactt ctacagacag accaaggctt ccatttgctg A</p> <p>ctgacacatg gaactgaggt gaaattgtgc tccatgattt tacagatttc ataacgttta</p> <p>agagacggga ctacaggtcat caaaatgaaa gccctcatct ttgcagctgc tggcctcctg</p> <p>cttctgttgc ccacttttgg tcagagtggc atggaataatg atacaacaa cttggcaaaag</p> <p>ccaaccttac ccattaagac ctttctgtga gctcccccaa attcttttga agattcccc</p> <p>ttttctgcct tggaaaggctg gacaggagcc acgattactg taaaaattaa gtgccctgaa</p> <p>gaaagtgcct cacatctcca tgtgaaaaat gctaccatgg ggtacctgac cagctcctta</p> <p>agtactaaac tgatacctgc catctacctc ctggtgttgg tagttgtgtg cccggccaat</p> <p>gctgtgaccc tgtggatgct tttcttcagg accagatcca tctgtaccac tgtatttctac</p> <p>accaacctgg ccattgcaga ttttcttttt tgtgttacct tgccttttaa gatagcttat</p> <p>catctcaatg ggaacaactg ggtatttga gaggtcctgt gccggggcac cacagtcac</p> <p>ttctatggca acatgtactg ctccattctg ctccctggct gcatcagcat caaccgctac</p> <p>ctggccatcg tccatccttt cactacacgg ggccctggcca agcacaccta tgccttggtta</p> <p>acatgtggac tgggtgtggc aacagtttct ttatatatgc tgcattttt catactgaag</p> <p>caggaatatt atcttgttca gccagacatc accactggcc atgatgttca caacacttgc</p> <p>gagtcctcat ctcccttcca actctattac ttcactcctt tggcatttct tggatttctta</p> <p>attccatttg tgcttatcat ctactgctat gcagccatca tccggacact taatgcatac</p> <p>gatcatagat ggttgttgta tgttaaggcg agtctcctca tcttctgtat ttttaccatt</p> <p>tgttttgctc caagcaatat tatctctatt attcaccatg ctaactacta ctacaacaa</p> <p>actgatggct tatattttat atatctcata gctttgtgct tgggtagtct taatagtgtc</p> <p>ttagatccat tcccttattt tctcatgtca aaaaaccaga atcactccac tgcctacctt</p> <p>acaaaatagt gaaatgatct tagagaacaa ggacagccat cacagagaac gtctgttttc</p> <p>aagaacaaca taagcatagt gcaaggagct ccatttccga gctcctaaga aatatgcttc</p> <p>aaaggtcaaa cattacaaa gctattagtag tttgtttgtt tgtttttgag actgagtctc</p> <p>actttatcac ccagactggc gtgcagtggc actatcttgg cctattgcaa cctctgcctc</p> <p>ccaggtcagc ctcccaagta gctgggatta caccaccatg cccagctact aaaaatactt</p> <p>gtatttttag tagagacggg gtttcacat gttgaccagg ctggtcttga actcctgacc</p> <p>tcaagtgatc ttccggcctc agcctcccaa agtgcctgat tacaggcgtg agccactgag</p> <p>ccagccagca ttagtattt tttaaaacac ttatcagta ttttaaaat gttaatgcag</p> <p>gagaaaagat atcacaaact tatggaaaaat gacattttcca tttgccttat tgctacttca</p> <p>agctctttaa atcacactct tccctatttc</p>	Homo sapiens
301	4052	Proteinase- Activated Receptor 3	NM_004101	<p>7KALIFAAG LLLLPTFCQ SGMENTNNL AKPTLPKTF RGAPPNSFEE PFPSALEGWT P</p> <p>GATITVKIKC PEESASHLV KNATMGYLTSLSTKLIPAI YLLFVVGVGP ANAVTLWMLF</p> <p>FRTRSICTV FYTNLAADF LFCVTLPEKI AYHLNGNNWV FGEVLCRATT VIFYGNMYCS</p> <p>ILLACISIN RYLAIVHPFT YRGLPKHTYA LVTCGLVWAT VFLYMLPFFI LKQEYLLVQP</p> <p>DITTCDDVHN TCESSSPFQL YYFISLAFFG FLIPFVLIY CYAAIIRTLN AYHRWLWYV</p>	Homo sapiens

303	4090	G Protein- Coupled Receptor GPR17	NM_005291	KASLLILVIF TICFAPSNI I LIIHHANYYY NNTDGLYFIY LIALCLGSLN SCLDPFLYFL MSKTRNHSTA YLTK	ccgacaccca cgggcggaga tcacctgctg ccccgceagac ccctgtccct tcctcccgga A ccagcagcta gaggatgtcc aaacggagtt ggtgggctgg atccagaag cccccaagag agatgctgaa actctcaggc tctcactcca gccaaagcat gaatggcctt gaagtggctc ccccaggtct gatcacaac ttctccctgg ccacggcaga gcaatgtggc caggagacgc cactggagaa catgctgttc gcctcctctt accttctgga ttttatcctg cgttttagttg gcaataccct ggctctgtgg cttttcatcc gagaccaca gtcggggacc cgggccaacg tgttcctgat gcacttgccc gtggcgact tgtcgtggtg gctgggtcctg cccaccgcgc tggtctacca ctctctggg aaccactggc catttgggga aatcgcatgc cgtctcaccg gcttcctctt ctacctcaac atgtacgcca gcactactt cctcacctgc atcagcgccg accgttctct ggccattgtg caccgggtca agtccctcaa gctccgcagg cccctctacg cacacctggc ctgtgctctc ctgtgggtgg tggtaggtgt ggccatggcc ccgctgctgg tgagcccaaca gacctgcag accaaccaca cggtaggtctg cctgcagctg tacggggaga aggcctccca ccctgcctg gtgtccctgg cagtggcctt caccttccg ttcatcacca cggtaacctg ctacctgctg atcatccgca gcctgcggca gggcctgctg gtgagaagc gcctcaagac caaggcagtg cgcatactg ccatagtgct ggccatctt ctggtctgct tcgtgcccta ccactcaac cgtccgtct acgtgctga ctaccgcag catggggcct cctgcgccac cagcgcctc ctggccctgg caacctcctg cactcctgc ctcacagcc tcaacggggc actgcacct atactgtatt tcttctggc tgagaagttc cgcacgcgc tgtgcaactt gctctgtggc aaaggctca agggccgcg cccagcttc gaaggga ccaacgagag ctgctgtgct gccaagtgc agctgtgagc gggggggcgc gtccaggccg agcgcagact gtttagact cagcagacc agcaagagg atctgccc tccccagcca cctccccagc aagcaacctg aaatctcagc agatgccac catttctcta gatcgccctag tctcaaccca taaaaaggaa gaactgacaa aggggatcca tcggccacc cctgcaggg gcttgtgat gctacaatgg ctctagaca ctcaacgact tcatctgtg caggagaga ggaggccgga agaacaaccc ctgaacaatg gaggccttc ttcccgcga ggtcccagc ctccttccg ctacagaatc gctcatcggc gaggctcagc agaaagacc tgaaggcagg ctgcaaatga cccagaagag gacctggga gtcctggtg gacggggag gtagtctcaa tactccttg cagcgcaagg tactctgagt cccctctga gtccctgc cagacacaca ctgctgagt tgaagagaca caggccacac atttcaggct ggttgccagc ggcgtcagc actcacggcc tgcggggact cagcacagct ctgattctg gatctcctt gctgtaacc cacgcacaag cctgcaacc ccagagctct ttgacaggct ccaggcctc ccagtcctgg acaagcatgt gcagtcaagg gactcagct caggccagg ctgggctgtg cactgcctc ccactgaccc agaccactt gctccagaga ggcctctc cgcctgagct atttccctg ctagtgtgca gatatttccc taacatgtcc tttttgtat ttgtttgtac ggaccataaa tataactgta gctttaagac taaaaaaaa	Homo sapiens
304	4090	G Protein- Coupled Receptor GPR17	NP_005282.1	GLEVAPPGLI TNFSLATAEQ CGQETPLENM P MSKRSWAGS RKPPREMLKL SGSDSSQSMN LEASFYLLDF ILALVGNILA LWLFIRDHKS SGNHWPFGEI ACRLTGFLFY LNMYSIYFL AFLWVVVAVA MAPLLVSPQT VQTNHTVVCL QLYREKASHH ALVSLAVFT PPFITTVTCY	GLEVAPPGLI TNFSLATAEQ CGQETPLENM P GTPANVFLMH LAVADLSCVL VLPTRLVYHF TCISADRELA IVHPVKSLK RRPLYAHLAC ALVSLAVFT PPFITTVTCY	Homo sapiens

305	4254	Rhodopsin	NM_000539	<p>LLIIRSLRQG LRVEKRLKTK AVRMIAIVLA IFLVCFVPYH VNRSVYVLHY RSHGASCATQ RILALANRIT SCLTSLNGAL DPIMYFFVAE KFRHALCNLL CGKRLKGGPPP SFEKTNNESS LSAKSEL</p> <p>agagtcaccc agctggagcc ctgagtggtc gagctcagcc ctctgcagca ttcttgggtg A ggagcagcca cgggtcagcc acaaggcca cagccatgaa tggcacagaa ggcctaact tctacgtgcc ctctccaat ggcacgggtg tggtagcagc ccccttcgag taccacagt actacctggc tgagccatgg cagttctcca tcttgccgcg ctacatgttt ctgctgatgc tgctgggctt ccccatcaac ttcttcacgc tctacgcac cgtccagcac aagaagctgc gcacgctct caactacatc ctgctcaacc tagccgtggc tgacctcttc atggtcctag gtggcttcac cagcaccctc tacacctctc tgcattgata ctctgcttc gggccacacg gatgcaattt ggagggttc ttggccacc ttgtggtgg tgtgtaagc catgagcaac ttccgcttcg tggctcctggc catcgagcgg taccgtgtgg tccctggtc tcacctgggt catggcgtg gctgcgccg gggagaacca tgcctcatg tccaggtaca tccccgaggg cctgcagtc tctgtggaa caccaccact cgcgggtgg tccaggtaca tccccgaggg cctgcagtc tctgtggaa tcgactacta cagcgtcaag cggagggtca acaacgagtc tttgtcatc tacatgttcg tggctcaact caccatccc atgattatca tctttttctg ctatgggcag ctctcttca ccgtcaaggga ggccgctgcc cagcagcagg agtcagccc caccagaaag gcagagaagg aggtcaccgg catggtcatc atcatgttca tgcgttctc gatctgctg gtgccctacg ccagcgtggc attctacatc ttaccaccac agggctccaa cctcggtccc atcttcata ccatccacgc gttcttggc aagagcgcg cctctacaa cctgtcatc tatatcata tgaacaagca gttccggaac tgcattgtca ccaccatctg ctgcggcaag aaccactgg gtgacgatga ggcctctgct accgtgtcca agacggagac gagccaggtg gccccggct aagacctgcc taggactctg tggccgacta taggcgtctc ccatccctca cacttcccc cagccacagc catccacca ggagcagcgc ctgtgcagaa tgaacgaagt cacataggct ccttaatttt tttttttttt ttaagaaata attaatgagg ctctcactc acctgggaca gcctgagaag ggacatccac caagacctac tgatctggag tcccacgttc cccaaggcca gcgggagtgt gtccctcct cctcccaact catcttcag gaacacgag attcttgcct tctggaaaaa tgtccagct tagggataag tgtctagcac agaattgggc acacagttag tgcttaataa atgctggatg gatgcaggaa ggaatggagg aatgaatggg aagggagaac atatctatcc tctcagacc tgcagcagc agcaactcat acttggctaa tgatatggag cagttgtttt tccctcctg ggcctcactt tcttctcta taaaatggaa atccccagtc cctggtcctg ccgacacgca gctactgaga agacaaaaa aggtgtgtgt gtgtctatgt gtgtgtttca gcacttttga aatagcaaga agctgtacag attctagtta atgttgtgaa taacatcaat taatgtaact agttaattac tatgattatc acctcctgat agtgaacatt ttgagattgg gcattcagat gatggggttt caccacaact tggggcaggt ttttaaaaaa tagctaggca tcaaggcccag accagggctg ggggttgggc tgtaggcagg gacagtca ggaatgcagg atgcagtcat cagacctgaa aaaaacac tgggggaggg ggacggtgaa ggccaagtc ccaatgaggg tgaattggg cctggggtct caccctagt gtggggcccc aggtcccggt cctcccctc ccaatgtggc ctatggagag acaggccttt ctctcagcct ctggaagcca cctgctcttt tgctctagca cctgggtccc agcatctaga gcatggagcc tctagaagcc atgtcacc gccacattt aattaacagc tgaagtcctg atgtcatcct</p>	Homo sapiens
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306	4254	Rhodopsin	NP_000530.1	<p> MNGTEGPNFY VPFSNATGW RSPFEYPQYY LAEPWQFSML AAYMFLLVLP VTVQHKKLRT PLNYILLNLA VADLFMVLGG FTSTLYTSLH GYFVFGPTGC NLEGFFATLG GEIALWSLVV LAIERXVVVC KPMNSFRFGE NHAIMGVAFV WVMALACAAP PLAGWSRYIP EGLQCSGID YYTLKPEVNN ESFVIYMFV HFTIPMLIIF FCYGQLVFTV KEAAAQQQES ATTQKAEKEV TRMVIIMVIA FLICWVPYAS VAFYIFTHQG SNFGPIEMTI PAFFAKSAAI YNPVIYIMMN KQERNCLTT ICCGNPLGD DEASATVSKT ETSQVAPA agagacagct gggccactgg cagtgagggga gagtggaggt ggcagagacc agtgcctcgc A ccactggctt cggggagctc gagtgctgg cgtggtgggt ggtgctactg gtggaagctc tctccggctc cagctcaat accctgacca tcttctctt ctgcaagacc cggagctgc ggactccctg ccactactg gtgctagct tccagcttc tccggcgtg gcacagtggg atcagctga atgcccctgt tgcagccaca cggcttccag ggccttctga cagcgtggc cagcatctgc agcagtgcag gccaggctca cggcttccag ggccttctga cagcgtggc cagcgtggc cagcgtggc ccatcgcatg gggcgcttat caccactact caccactact gacacctgag ccagctggc tggaaactcag ccgtctctct ggtgctcttc gttggtctgt gttggtctgt cttctgcttc ctgggcagct ctgccccctc tgggttgggg tcaactatgac tatgagccac tggggacatg ctgcacctg gactactcca agggggacag aaactcacc agcttctct taccactgtc cttcttcaac ttcgccatgc ccctcttcat cagatcact tccatagtc tcatggagca gaaactggg aagagtggc atctccaggt aaacacact ctgccagcaa ggcgtctgt gtcggctgg ggcctctatg ccatcctgta tctatacgca gtcacgcag acgtgacttc catctcccc aaactgcaga tgggtcccg cctcattgcc aaaaatggtg ccacgatcaa tgccatcaac tatgccccg gcaatgagat ggtctgcagg ggaatctgg agtgcctctc accgcagaag agggagaag accgaaccaa gtgagcctgc caccctggag tgagccccag gccaggaggc tgttccagga gtcctgcccc gcagcctcgg tggccaagcc cagacactca cccaccttc ccagtggccc cgtggatcct ggtcctaggc tggacacagg attcagaag acaccaggct gcacagaaag agccagatgg acctgagtgt cggtcacagc cccctacact caaggctgag aggcctcag aaagtcattc ctttttaaaa ataataata atgtaaggg gtacagtga gttttgttac atggatagat tgcctagtgg tgaagtctgg gcttttagtg taaccatcac cctaataata tacgtgtgac ccattaagt atttctcat cctcaccctc tcccacctg tcacctctc gagtctccaa tgtctattat tccacactcc atgtccactg gtacacatta tttagctccc acttacaagt gagaactgt ggtatttgac ttcca </p>	Homo sapiens
307	4284	Retinal G Protein-Coupled Receptor RPE	NM_002921	<p> agagacagct gggccactgg cagtgagggga gagtggaggt ggcagagacc agtgcctcgc A ccactggctt cggggagctc gagtgctgg cgtggtgggt ggtgctactg gtggaagctc tctccggctc cagctcaat accctgacca tcttctctt ctgcaagacc cggagctgc ggactccctg ccactactg gtgctagct tccagcttc tccggcgtg gcacagtggg atcagctga atgcccctgt tgcagccaca cggcttccag ggccttctga cagcgtggc cagcatctgc agcagtgcag gccaggctca cggcttccag ggccttctga cagcgtggc cagcgtggc cagcgtggc ccatcgcatg gggcgcttat caccactact caccactact gacacctgag ccagctggc tggaaactcag ccgtctctct ggtgctcttc gttggtctgt gttggtctgt cttctgcttc ctgggcagct ctgccccctc tgggttgggg tcaactatgac tatgagccac tggggacatg ctgcacctg gactactcca agggggacag aaactcacc agcttctct taccactgtc cttcttcaac ttcgccatgc ccctcttcat cagatcact tccatagtc tcatggagca gaaactggg aagagtggc atctccaggt aaacacact ctgccagcaa ggcgtctgt gtcggctgg ggcctctatg ccatcctgta tctatacgca gtcacgcag acgtgacttc catctcccc aaactgcaga tgggtcccg cctcattgcc aaaaatggtg ccacgatcaa tgccatcaac tatgccccg gcaatgagat ggtctgcagg ggaatctgg agtgcctctc accgcagaag agggagaag accgaaccaa gtgagcctgc caccctggag tgagccccag gccaggaggc tgttccagga gtcctgcccc gcagcctcgg tggccaagcc cagacactca cccaccttc ccagtggccc cgtggatcct ggtcctaggc tggacacagg attcagaag acaccaggct gcacagaaag agccagatgg acctgagtgt cggtcacagc cccctacact caaggctgag aggcctcag aaagtcattc ctttttaaaa ataataata atgtaaggg gtacagtga gttttgttac atggatagat tgcctagtgg tgaagtctgg gcttttagtg taaccatcac cctaataata tacgtgtgac ccattaagt atttctcat cctcaccctc tcccacctg tcacctctc gagtctccaa tgtctattat tccacactcc atgtccactg gtacacatta tttagctccc acttacaagt gagaactgt ggtatttgac ttcca </p>	Homo sapiens
308	4284	Retinal G Protein-	NP_002912.1	<p> MAETSAIPGT FGELEVLAVG MVLLEALSG LSLNLTIFS FCKTPELRTP CHLLVLSLAL P ADSGISLNAL VAATSSLLRR WPYGSDGCQA HGFQGFVTAL ASICSSAAIA WGRYHHYCTR </p>	Homo sapiens

309	4321	Coupled Receptor RPE	NP_002980	<p>SQLAWN SAVS LVLFWLSSA FWAALPLL GW GHYDYEPLGT CCTLDYSKGD RNFTSELFSTM SFNFAMPLF ITITSYSIME QKLKSGHLQ VNTTLPARTL LLGWGPYAIL YLYAVIADVT SISPKIQMVP ALIAKMWPTI NAINYALGNE MVRGRITWQCL SPQKREKDR T K acgagggccg cgggagcccg ggacccctgc cggggcgctg agctcccag cgggcagagg A gcacgggcag cgggacgtcg gggcgccctc ggggaacgtg cgggcaccat gcgtcccac ctgtcgccgc cgtgcagca gctactactg cgggtgctgc tgcctgcgc cgcgcactcg actggagccc ttcccagact atgtgacgtg ctacaactgc tgtgggaaga gcaagaccag tgcctgcagg aactctccag agagcagaca ggagacgtgg gcacggagca gccagtgcc ggtgtgagg ggtgtggga caacataagc tgcctgcctt cttctgtgcc gggccggatg gtggagggtg aatgcccag attcctccg atgtcacca gcagaaatgg ttccctgttc cgaaactgca cacaggatgg ctggtcagaa accttccca ggcctaactt ggcctgtggc gttaatgtga acgactcttc caacgagaag cggcactcct acctgctgaa gctgaaagtc atgtacaccg tgggtacag ctctccctg gtcactctcc tggtcgccc tggcatcctc tgtctttcc ggaggtcca ctgcactgc aactacatcc acatgcact gtctgtgtcc ttcatccttc gggcctgtc caacttcac aaggacggcg tgcctcttc ctccagatgat gtcactact gcgacccga caggcgggc tgaagctgg tcatgtgtgt gttccagtac tgcacatgg ccaactact ctggtgtgtg gtggaaggcc tctacctca cacactcctc gccatctct tcttctctga aagaaagtac ctccaggat ttgtggcatt cggatgggg tctccagcca tttttgttc tttgtggct attgcccag acttcttga agatgttgg tgtgggaca tcaatggcaa cgcactcatc tgggtgatca ttctgtgtcc tgtgatcctc tccatctga ttaatttcat cttttcata aacattctaa gaatcctgat gagaaaact agaaccaag aaacaagagg aaatgaagtc agcattata agcgctggc caggtccact ctcctgtga tcccctctt tggcaccac tacatgtct tgcctcttc cccagaggac gctatggaga tccagctgt ttttgaacta gccctgtgtt cattccaggg actggtgtg gccgtcctt actgcttct caatggggag gtgcagctgg aggttcagaa gaagtggcag caatggcacc tccgtgagt cccactgcac cccgtggcct ccttcagcaa cagcaccag gccagccact tggagcagag ccagggcacc tgcaggacca gcatcatctg agaggctgga gcagggtcac ccacggacag agaccaagag aggtctctgc aggtctggc actgctgtg gacagccagt ctccccagca gacacctgt gtcctcctc agctgaagat gcccctccc agcccttga ctctccgaa gggatgtgag gcactgtgg gcaggacaag ggcctggat ttggttcgtt tgcctctg ggaagagaag ttcagggggtc ccagaaaggg acagggaat aaatggtgcc tgggatgaga ttc</p>	Homo sapiens
310	4321	Secretin Receptor	NP_002971.1	<p>MRPHLSPPLQ QLLPLVLAC AAHSTGALPR LCDVLQVLWE EQDQCLQELS REQTGDLGTE P QVPVCGEGMW DNISCFSSV PGRMVEVECP RFLRMLTRN GSLFRNCTQD GWSETFPRPN LACGVNVDN SNEKRSYLL KLKVMYTVGY SSSLMLLVA LGILCAFRRL HCTRNYIHM LFVSFILRAL SNEFKDAVLF SSDDVTYCDP HRAGCKLVMV LFQYCMANY SWLLVEGLYL HTLLAISFFS ERKYLOGFVA FGWGSPIFV ALMAIARHFL EDVGCWDINA NASIWWIIRG PVILSILINF ILFINILAIL MRKLRTQETR GNEVSHYKRL ARSTLLIPL FGIHYIVFAF SPEDAMEIQ LFFELALGSFQ GLVAVLYCF LNGEVQLEVQ KKWQQWHLRE FPLHPVASFS NSTKASHLEQ SQGTCRTSII</p>	Homo sapiens

311	4480	Somatostatin Receptor Type 1	NM_001049	atgttcccca atggcaccgc ctctctctct tctctctctc ctagcccccag cccgggcagc A	Homo sapiens
				tgccggaag gcggcgagc caggggcccc ggggccggcg ctgcggacgg catggagagag	
				ccaggcgaa atgcgtccca gaacgggacc ttgagcgagg gccagggcag cggcatcctg	
				atctctttca tctactccgt ggtgtgcctg gtggggctgt gtgggaactc tatggtcac	
				tacgtgatcc tgcgtatgc caagatgaag acggccacca acatctacat cctaaatctg	
				gccattgctg atgagctgct catgctcagc gtgcctctcc tagtcacctc cactgtgttg	
				cgccactggc ccttcggtgc gctgctctgc cgccctcgtc tcagcgtgga cgcgggtcaac	
				atgttcacca gcatctactg tctgactgtg ctacagctgg accgctacgt ggccgtggtg	
				catcccatca aggcggcccc ctaccgcggg cccaccgtgg ccaagtagt aaacctgggc	
				gtgtgggtgc tatcgtgct cgtcactctg cccatcgtgg tcttctctcg caccgcggcc	
				aacagcgacg gcacgggtgc ttgcaacatg ctcatgccag agcccgctca acgctggctg	
				gtgggcttcg tgtgtacac atttctcatg ggtctctcgc tgcccgtggg ggctatctgc	
				ctgtgctacg tgcctatcat tgctaaatg cgcctgggtgg cctcaaggc cggctggcag	
				cagcgcaagc gctcgagcg caagatcacc ttaatggtga tgatggtggt gatggtgttt	
				gtcatctgct gtagtccttt ctacgtggtg cagctgggtta acgtgttgc tgagcaggac	
				gacgccacgg ttagtcagct gtcggtcatc ctcggtcatg ccaacagctg cgccaaacct	
				atcctctatg gctttctctc agacaattc aagcgtctt tccaaagcat cctatgcctc	
				agctggatgg acaacgcgc ggaggagcgg gttgactatt acgccaccgc gctcaagagc	
				cgtgcctaca gctgtgaaga ctcccaacct gagaacctgg agtcggcg cgtcttccgt	
				aatggcaact gcactgcctg gatcacgacg ctctga	
312	4480	Somatostatin Receptor Type 1	NP_001040.1	MFNPGTASSP SSSPSPSPGS CGEGGSRGP GAGAADGME PGRNASQNGT LSEGGQSAIL P	Homo sapiens
				ISFIYSVVCL VGLCGSNVI YVILRYAKMK TATNIYILNL AIADELLMLS VPFLVTSTLL	
				RHWPFGALLC RLVLSDAVN MFTSIYCLTV LSVDRYAVV HPIKAARYRR PTVAKVNLG	
				VWVLSLLVIL PIVFSTRTA NSDGTACNM LMPEPAQRWL VGFVLYTFILM GFLLPVGAIC	
				LCYVLIIAKM RMVALKAGWQ QRKRSEKIT LMVMVMVMVF VICWMPFYV QLVNVEAEQD	
				DATVSQLSVI LGYANSCANP ILYGFLSDNF KRSEFQRIILCL SWMDNAAEEP VDYYATALKS	
				RAYSVDEFQP ENLESGGVER NGTCTSRIT L	
313	4481	Somatostatin Receptor Type 2	NM_001050	atggacatgg cggatgagcc actcaatgga agccacacat ggctatccat tccatttgac A	Homo sapiens
				ctcaatggct ctgtggtgtc aaccaacacc tcaaacccaga cagagccgta ctatgacctg	
				acaagcaatg cagtcctcac attcatctat ttgtgtgtct gcatcattgg gttgtgtggc	
				aacacacttg tcatttatgt catcctccgc tatgccaaga tgaagacct caccacacatt	
				tacatctca acctggccat cgcagatgag ctcttcatgc tgggtctgccc ttctttggct	
				atgcagggtgg ctctggtcca ctggcccttt ggcaaggcca ttgtccgggt ggtcatgact	
				gtggaatggca tcaatcagtt caccagcatc tctcatgtag cagtcatgag catcgaccga	
				tacctggctg tggtcaccc catcaagtcg gccaaagtga ggagaccccg gacggccaaag	
				atgatcacca tggctgtgtg ggagtcctct ctgctggtca tcttgcccat catgatatat	
				gctgggctcc ggagcaacca gtgggggaga agcagctgca ccatcaactg gccaggtgaa	
				tctggggctt ggtacacagg gttcatcatc tacactttca ttctggggt cctgggtacc	
				ctcaccatca tctgtctttg ctacctgttc attatcatca aggtgaagtc ctctgggaatc	
				cagatgggct cctctaaagag gaagaagtct gagaagaagg tcaccggaat ggtgtccatc	
				gtgggtggctg tcttcatctt ctgctggctt cccttctaca tattcaacgt ttcttccgtc	

314	4481	Somatostatin NP_001041.1 Receptor Type 2	<p> tccatggcca tcagcccccac ccagccctt aaagcaatgt ttgactttgt ggtggtcctc acctatgcta acagctgtgc caacctatc ctatagcct tctgtctga caacttcaag aagagcttcc agaattgctt ctgcttggtc aagtgagcg gcacagatga tggggagcgg agtacagta agcaggacaa atcccgctg aatgagacca cggagaccca gaggacctc ctcaatggag acctccaaac cagtattga MDMADEPLNG SHTWLSIPFD LNSGVSTNT SNQTEPYDYL TSNVLTIFY FVCIIGLGG P NTLVIYVILR YAKMTITNI YILNLIAIDE LFMLGLPFLA MQVALVHWPF GKALCRVWMT VDGINQFTSI FCLTMSIDR YLAVVHPIKS AKWRPRTAK MITMAVMGVS LLVILPIMY AGLRNQGWR SSCINWPGS SGAWYTGFI YFIFLGLFV LTIICLCYLF IIKVKSSGI RVGSSKRKKS EKKVTRM/VI VVAVFIFCWL PFYIFNVSSV SMAISPTPAL KGMFDFVVL TYANSCANPI LYAFLSDNFK KSFQNVLCV KVSQDDGER SDSKQDKSRL NETTETQRTL LNGDLQTSI </p>	Homo sapiens
315	4482	Somatostatin NM_001051 Receptor Type 3	<p> atggacatgc ttcatccatc atcggtgtcc acgacctcag aacctagaa tgcctcctcg A gcctggcccc cagatgccac cctgggcaac gtgtcgcggt gcccaagccc ggcagggtcg gcgtcagtg gcgtctgat cccctggtc tacctggtg tgtcggtgt ggcctgctg ggtactcgc tggatcata tgtgtcctg cggcacacgg ccagccctc agtaccacac gtctacatcc tcaacctggc gctggcggac gagctctca tctgggggt gccctcctg gcgcccaga acgcccgtc ctactggccc ttgggtccc tcatgtgccc cctggteatg gcgtggatg gcataacca gtccaccagc atattgcc tgactgtcat gagcgtggac cgctacctgg cgtgggtaca tccaccgcg tggcccgct ccggcacagc tccggtggcc cgacgggtca cgcggctgt gtgggtggcc tcagcgtgg tgggtgctgc cgtgggtggt ttctcgggag tgcgcggcg catgagacc tgcccatgc agtggccga gccggcgcg gcctggcgag ccggttcat catctacac gccgcaatgg gcttctcgg gccgtgctg gtcatctgct tctgtacct gctcatctg gtgaaggtgc gctcagctgg gcgcgggtg tgggcaccct cgtgccagcg gcgcggcgcc tccgaacga ggttcacgc catggtggtg gcgtggtg cgctcttct gctctgctg atgcccctt acgtgctcaa catcgteaac gtgtgtgccc cactgcccga ggagcctgccc ttcttgggg tctactcct ggtggtggcg ctgccctatg ccaacagctg tgccaaaccc atcctttatg gcttctctc ctaccgctc aagcagggct tccgcagggt cctgctgccc cctcccgcc gttggtgccc ccaggagccc actgtgggc cccggagaa gactgaggag gagtatgag agggaggga tggggaggag agcagggagg ggggcaagg gaggagatg aacggccggg tcagccagat cagcagcct ggcaccagcg ggcaggagcg gccgcccagc agagtggcca gcaaggagca gcagctccta ccccaaagg cttccactgg ggagagtc ccagcagatgc gcatcagta cctgtag GNSLVIYVVL MDMLHPSSVS TTSEPNASS AWPDPATLGN VSGVGLPLV YLVVGVGGLL P AVDGINQFTS IFCLTMSVD RYLAVVHPTR SARWRTAPVA RQNALSYWP FGSIMCRLVM FSGVPRGMST CHMQWPEPAA AWRAGFIYT AALGFGPLL VICLCYLLIV VKVRSAGRRV WAFSCQRRRR SERRVTRMV AVVALEVLW MPFYINIVN VCPLEPEA FGLYFLVVA LPYANSCANP ILYGFLSYRF KQGFRRVLR PSRRVRSQEP TVGPPKTEE EDEEEDEEE SREGGKGEM NGRVSIQTP GTSGQERPPS RVASKEQQLL PQEASTGEKS STMRIISYL </p>	Homo sapiens
316	4482	Somatostatin NP_001042.1 Receptor Type 3	<p> tccatggcca tcagcccccac ccagccctt aaagcaatgt ttgactttgt ggtggtcctc acctatgcta acagctgtgc caacctatc ctatagcct tctgtctga caacttcaag aagagcttcc agaattgctt ctgcttggtc aagtgagcg gcacagatga tggggagcgg agtacagta agcaggacaa atcccgctg aatgagacca cggagaccca gaggacctc ctcaatggag acctccaaac cagtattga MDMADEPLNG SHTWLSIPFD LNSGVSTNT SNQTEPYDYL TSNVLTIFY FVCIIGLGG P NTLVIYVILR YAKMTITNI YILNLIAIDE LFMLGLPFLA MQVALVHWPF GKALCRVWMT VDGINQFTSI FCLTMSIDR YLAVVHPIKS AKWRPRTAK MITMAVMGVS LLVILPIMY AGLRNQGWR SSCINWPGS SGAWYTGFI YFIFLGLFV LTIICLCYLF IIKVKSSGI RVGSSKRKKS EKKVTRM/VI VVAVFIFCWL PFYIFNVSSV SMAISPTPAL KGMFDFVVL TYANSCANPI LYAFLSDNFK KSFQNVLCV KVSQDDGER SDSKQDKSRL NETTETQRTL LNGDLQTSI </p>	Homo sapiens

317	4483	Somatostatin Receptor Type 4	NM_001052	atgagcgccc cctcgacgt gcccccggg ggcgaggaag ggctggggag ggctggccc A tctgagcca atgcagtag cgctcggcg gagcgaggg agcggtggc ggcccggg gacgcgggg cgccgggcat ggctctatc cagtcacatc acgcgtgggt gtgcctggtg ggctgggtgg gcaagccct ggctacatctc gtgacatctc gctacgcca gatgaagacg gctacacca tctacgtgt caactggcc gtacggacg agcttctcat gctgagcgtg cccttcgtgg cctcgtggc cctcgtggc cactggccct tcggctccgt gctgtgccc gggtgtctca gctcgacgg cctcaacatg ttaccagcg tcttctgtc caccgtgctc agcgtggacc gctacgtggc cgtgggtgac cctctggcg cgcgaccta ccggcgccc agcgtggcca agctcatcaa cctggggtg tggctggcat cctgttgggt cactctccc atcgcatct tgcagacac cagaccggct cgccggggc agcgtggc ctgcaacctg cagtggccac acccgccgtg gtccgagtc ttcgtgtct acatttct gctgggcttc ctgctgccc tgcgtggcat tggcctgtg tacctgtca tctggggcaa gatgcgcgc gtgcccctgc gcgtgggtg gcagcagcg agcgtcctgg agaagaaat caccagctg gtcgtgatgg tgcgtgtcgt cttgtgtc tgcgtgatg ctttctacgt ggtgcagctg ctgaacctcg tgcgtgaccag ccttgatgcc accgtcaacc cgtgtccct tatcctcagc tatgcaaca gctgcgcaa cctattctc tatggcttc tctccgcaa cttccgcga tcctccagc gggttctctg cctgcgtgc tgcctcctgg aggtgctgag aggtgctgag gaggagcccc tggactacta tggcactgct ctcaagagca aggtggggc aggtgcatg tgccccccac taaaatgcca gcaggagcc ctgcaaccag aaccgggccc caagcgcatc ccctccacca ggaccaccac cttctga	Homo sapiens
318	4483	Somatostatin Receptor Type 4	NP_001043.1	MSAPSLPPG GEEGLTAMP SAANASSAPA EAEEAVAGPG DARAAGMVAI QCIYALVCLV P GLVGNALVIF VILRYAKMT ATTIIYLINLA VADEFMLSV PFVASSNALR HWPFGSVLCR AVLSVDGLNM FTSVFCITVL SVDRYAVVH PLRAATYRRP SVAKLINLGW WLASLLVTLR IAIFADTRPA RGGQAVACNL QWPHPAWSAV FVYTFLLGF LLPVLAIGLC YLLIVGMRA VALRAGWQQR RRSEKKITRL VLMVVVFEVL CWMPFYVQL LNLVVTSLDA TVNHVSLILS YANSCANPIL YGFLSDNFRR SFQRLCLRC CLLEGAGGAE EEPLDYVATA LKSKGGAGCM CPPLKQQEA LQPEPGRKRI PLTRTTTF	Homo sapiens
319	4484	Somatostatin Receptor Type 5	NM_001053	atggagcccc tgttcccagc ctccacgccc agctggaacg cctcctcccc gggggctgcc A tctggaggcg gtgacaacag gacgtggtg ggcccgccg cctcggcagg ggcccggcg gtgctgtgctc ccgtgctgta cctgctggtg tgtgcggccg ggctggggcg gaacacgctg gtcatctacg tggctgtgcg cttgcgcaag atgaagaccg tcaccaacat ctacattctc aacctggcag tggcgcagct cctgtacatg ctggggctgc ctttctctgc cagcagaac gccgctcct tctggccctt cgcccccgtc ctgtgccgc tggatcatgac gctggacggc gtcaaccagt tcaccagtgt cttctgctg acagtcatga gcgtggaccg ctacctggca gtgtgtcacc cgtgagctc ggcccgctgg cgcccccgc gtgtggccaa gctggcagc gccgcccct gggctcctgc tctgtgcatg tgcctgcgc tcctgggtgtt cgcggacgtg caggagggcg gtacctgcaa cgccagctgg ccgagcccc tggggctgtg ggccgcccgc ttcatcatct acacggcgt gctgggcttc ttcgcccgc tgcgtgtcat cgtcctgtgc tacctgtctca tgcgtgtgaa ggtgaggcg gcggcgctgc gcgtgggctg cgtgcggcg cgctcggagc ggaaggtgac gcgcatggtg ttggtggtg tgcgtgtgtt tgcgggatgt tggctgcctt tcttcacct caacatcgt aacctggcg tggcgtgcc ccaggagccc	Homo sapiens

320	4484	Somatostatin Receptor Type 5	NP_001044.1	MEPLFPASTP VIYVLRFAK VNQTSVFCL QEGGTNASW RSERKTRMV PVLYGFLSDN	SKNTVTNIIYL TMMSVDRYLA PEPVGLWGAV LVVVLVFAQC FRQSFQKVL	SGGGDNRTLV NLAVADVLYM VHPLSSARW FIITYAVLGF WLFFFTVNIV LRKGGGAKDA	GPAPSAGARA LGLPFLATQN RRPRVAKLAS FAPLLVTLCL NLAVALPQEP DATEPRPDRI	VLVPVLYLLV AASEWPFPGV AAAWVLSLCM YLLIVVKVRA ASAGLYFFV RQQQEATPPA	CAAGLGGNTL LCRLVMTLDG SLPLLVEADV AGVRVGCVRR ILSYANSCAN HRAAANGLMQ	Homo sapiens
321	4552	Tachykinin Receptor 1	NM_001058	aattcaagagc cagttcagct agaaggaccc cagatagtag ctctcccaa caaatgttcc gtggtagtga ctggtgaacc acctatgctg tttcccatcg tacatggcca atctgtgtca acagagacca atttatgaga gtgatgggct gactcctctg attgtcgtgg ccctacatca atgtggctgg aggttccgctc tatgaggggc gtcagccgcc gacggcccca gactccaaga gggccccttgg tcacctcatc tgggttaggg caccctcatg aggtcggacc	caccgcgggc ttcaaaaaga tgagcccccag gctttacgcc acatctccac tttgggcagc tgtggatcat tgcccttcgc tccacaacga ccgctgtctt tcatacatcc tgtgggtcct tgccccagcag aagtgtagca atgcatacac accgctacca tgtgcacctt accagatctt ccatgagctc tgggcttcaa tggaatatgaa tgagagaccac aggccaacac ccatgacaga caggtgcagc tggaaccatc aaaacattcc ctgtgtgact	aggcgggcag gtgctgccc gcgccagcca tagcttcgaa taacacctcg tgccctacacg cttagcccac ggaggcctcc atggtactac cgccagtatc cctccagccc ggctctcctg agtcgtgtgc catctgtgtg cgtagtggga cgagcaagtc cgccatctgc ctacctgaag caccatgtac gcatgccttc atccaccggg catctccaca ctcgtccctg gagcttcagc cccactgccc agaaacaccc tcacctggg atccttgagt caaaccacaa cactgaacct	tgcatccaga taaaaagcct caggactctg atggataacg gaacccaatc gtcattgtgg aaaagaatga ggcctgcgat ggcctgttct tactccatga cggctgtcag ctggccttcc atgatcgaat actgtgtgta atcacactat tctgccaaagc tggtgcacct aagtttatcc aaccccatca cgggtgctgc tatctccaga gtggtggggg gacctgacct ttctcctcca tttgacctgc tcacctggg tcacactggg caaaaaatct cactgaacct	agcgtttata tccaccctcc ctgcagaggg tcctcccggt agttcgtgca tgacctctgt ggacagtgc tcaatacagt actgcaagtt cggctgtggc ccacagccc cccagggcta ggccagagca gggccagtga gataccccgg gcaagtggtg tccacatctt agcaggtcta tctactgctg ccttcacatg cccagggcag tgtgtacaaa cccacgagga ccaactgctc atgtgctctc ctcccttcat acttgcaaaa agggtcagta caattcttcc tgctgagcct tttctggaag	ttctgagcgc tgtctgcttt gggttgtgta ggactcagac accagcctgg gggtggcaac gaactatttt ggtaaacctt ccacaacttc ccttgatagc caaagtgggt ctactcaacc tccgaacaag gataccccgg gataccccgg caaaaatgatg cttccctcctg cctggcccat cctcaatgac cgccggcgac tgtgtacaaa ggagccagag ttcacgaagt ctaggccaca gcatgggaaat agggtcagta ctatctttgc gtaaaataaa tgactttggc	Homo sapiens

322	4552	Tachykinin Receptor 1	NP_001049.1	tgcatgcgag tgctcattc aggatg	MDNVLVDS LSPNISTNTS EPNQFQPAW QIVLWAAAYT VIVVTSVVG N VVMMIILAH P	Homo sapiens
				KRMRTVTNYF LVNLAFEAAS MAFTVNVF TYAVHNEWY GLFYCKPHNF FPIAAVEFASI		
				YSMTAVAFDR YMAITHPLQ RLSATATKV TLIYFLPLL VIGYADTVVG ITLWASEIPG DSSDRYHEQV		
				MIWPEHPNK IYKVVYHICV WLPFHIFLL PYINPLYLK KFIQQVYLAI MWLAMSSTMY		
				SAKRKVVMM IVVCTFAIC WLPFHIFLL PYINPLYLK KFIQQVYLAI MWLAMSSTMY		
				NPIIYCLND RFRLGKHF RCPFISAGD YEGLEMKSTR YLQTQGSVYK VSRLETITST		
				VVGAHEEPE DGPXATPSSL DLTSNCSSRS DSKTMTSEFS FSSNVL		
323	4687	Thrombin Receptor	NM_001992	ggcggggggc gcacagagcc agagggtt gcgagggcg gctgagggac cgcggggagg A		Homo sapiens
				ggcgcccgag cggctccagc gcagagactc tcactgcacg ccgagggccc ctctctcgct		
				ccgcccgcgc gaccgcgcgc ccaggtccc cccgccccg ctaacggccc cagacacagc		
				gctgcgcgag ggctgcttg accctgatct taccgtggg caccctgcgc tctgcctgcc		
				gcgaagaccg gctcccgcgc ccgcagaagt caggagagag ggtgaagcgg agcagcccga		
				ggcgggggcag cctcccgcgc cagcgcgcgc gacaaaggcg gacaaaggcg ccgcggcgcc		
				tgctgctggt ggccgcctgc ttcagttctg cggcccgct gttgtctgcc cgcacccggc		
				ccgcaggcc agaatcaaaa gcaacaatg ccacttaga tccccgtca ttcttctca		
				ggaccccaa tgataatat gaacatttt gggagagatga ggagaaaaa gaaagtgggt		
				taactgaata cagattagtc tccatcaata aaagcagtc tcttcaaaa caacttctg		
				cattcatctc agaagatgcc tccggatatt tgaccagctc ctggtgaca ctcttctgcc		
				ctctgtgta caccgagtg tttgtagtca gcctccact aaacatcatg gccatcgctg		
				tgctcatcct gaaaatgaag gtaagaagc cggcggtggt gtacatgctg caccctggca		
				cggcagatgt gctgttgtg tctgtgctc ctttaagat cagctattac ttctccggca		
				gtgattggca gttgggtgt gaattgtgc cttctgtcac tgcagcattt tactgtaaca		
				tgtaagcctc tatctgtgc atgacagtca taagcattga ccggtttctg gctgtggtgt		
				atcccatgca gtcctctcc tggcgtactc tgggaaggcg ttccttcaat tgtctggcca		
				tctgggcttt ggccatgca ggggtagtgc ctctgctct caaggagcaa accatccagg		
				tgccggggct caacatcact acctgtcatg atgtgtcaa tgaaccctg ctggaaggct		
				actatgcta ctacttctca gccttctctg ctgtctctt ttttgtgccc ctgatactt		
				ccacggtctg ttatgtgtc atcattcgat gcttagctc ttccgcagtt gccaacccga		
				gcaagaaagc ccgggcttg ttcctgtcag ctgctgttt ctgcatctt atcatttgc		
				tcggacccac aaacgtctc ctgattgccc attactcatt ccttctcac acttccacca		
				cagaggtctg ctacttggc tactctctt gtgtctgtg cagcagcata agctcgtgca		
				tcgacccctt aatttactat tacgcttct ctgagtcca gaggtacgtc tacagtatct		
				tatgtctgcaa agaaagtcc gatccagca gtataacag cagtgggag ttgatggcaa		
				gtaaaaatga tacctgtct agtaacctga ataagcatt atacaaaag ctgttaactt		
				agaaaaagg actgctggga ggttaaaaag aaaagttaaat aacctgagga		
				ttctattagt ccccccacaa actttattga ttcacctct aaaaacacag atgtacgact		
				tgcatacctg ctttttatgg gagctgtcaa ccatgtatt ttgtcaatta ccagaaagat		
				aacaggacga gatgacgggtg ttattccaag ggaattatgc caatgctaca gtaataaatg		
				aatgtcactt ctggatatag ctagggtgaca tatacatact tacatgtgtg tatatgtaga		

324	4687	Thrombin Receptor	NP_001983.1	<p> tgatgcaca cacatatatt atttcagtg cagtagagaa taggcacttt aaacactct ttcccgcac cccagcaatt atgaaataa tctctgattc cctgatttaa tatgcaaaagt ctaggttggt agagtttagc cctgaacatt tcatggtgtt catcaacagt gagagactcc atagtttggg cttgtaccac ttttgcaaat aagtgtattt tgaattgttt tgacgggaag gtttaagtta ttaagaggtg agacttagta ctatctgtgc tgaagattc tagtgtttc aatttaaac atatcaagt ttgaattcct aaattatgg aacagatga aaagcctctg ttttgatag gtagtaattt ttacatttt acacatgta cacataagcc aaactgagc ataagtcctc tagtgaatgt aggtggtt ccagagtagg ctattcctga gagctgcag tgtccgcccc cgatggagga ctccaggcag cagacacatg ccagggccat gtcagacaca gattggccag aaaccttctc gctgagctc acagcagtga gactggggcc actacatttg ctccatcctc ctgggattgg ctgtgaactg atcatgttta tgagaaactg gcaagcaga atgtgatc ctaggaggtg atgacctga aagactctc taccatctt aaaaaaacg aaagaaggca tggactctg gatgccatc cactgggtgt aaacacatct agtagttgt ctgaaatgtc agttctgata tggagcacc cattatgctg tgtggccact ccaataggtg ctgagtgtag agagtgaat aagacagaga cctgccccca agagcaaat agatcatgca tagagtgta tgtatgtga ataatatgt ttacacaaa caaggcctgt cagctaaaga agttgaaca tttgggttac ttttctgt ggtataact taatgaaaac aatgcagtag aggacatata ttttttaaaa taagtctgat ttaattgggc actattatt taaaaatgtt ttgtcaata gattgctcaa atcagggttt cttttaagaa tcaatcatgt cagctgctt agaaataaca gaagaaata gaattgacat tgaatttag gaaaattatt ctataattc tagaaaatct tcatggaatt caaaagtaa tttggaatt agttgaaac atatctcta tcttacgaaa aaatgtagc attttaaca aaatagaaag ttgcaaggca aatgtttatt taaaagagca ggcagggcgc ggtggctcac gctgtaatc ccagcacttt gggaggctga ggcgggtgga tcacgaggtc agagatcga gacctctg gctaaacacgg tgaacccgt ctctactaaa aatgcaaaaa aaattagcgg ggcgtggtgg caggcacctg tagtcccagc tactcgggag gctgaggcag gagactggcg tgaaccacgg aggcggacct tgtagtgagc cgagatcgcg ccaatgtgct ccagctggcg caacagagca agactccatc tc </p>	Homo sapiens
325	4734	Thyrotropin Releasing Hormone Receptor	NM_003301	<p> tagcttcaag ccactgaaga tggaaaaaga gacagtcagt gaactgaacc aaacacagt A tcagccacga gcagtggtgg ccttagaata ccaggtggtc accatcttac ttgtactcat tatttggtgc ctgggcatgg taggcaacat catggtgagtc ctggttgta tgaagacaa gcacatgagg acccccacaa actgctacct ggtgagcctg gcagtagctg atctcatggt cttggtggcc gcaggcctcc ccaacataac agacagtatc tacggttctt ggtctatgg </p>	Homo sapiens

326	4734	Thyrotropin Releasing Hormone Receptor	NP_003292.1	<p>ctatgttggg tgcctctgca ttacttacct ccagtatttg ggaattaatg catcctcttg ttcaataaca gcctttacca ttgagaggtg catageaatc tgtcacocca tcaaaagccca gtttctctgc acattttcca gagccaaaaa gattatcatc ttgtctgggg ctttcacatc tctttactgt atgctctggg tcttcttgct ggaatcctaat attagcacct acaaaagatgc tattgtgata tccgtgtggct acaagatctc caggaattac tactcaccta ttacctaata ggactttggg gtctttttatg ttgtgccaat gatctgggt accgtctctt atggattcaat agctagaatc cttttcttaa atccccatcc ttcatgacct aaagaaaaat ctaagacatg gaaaaatgat tcaacccatc agaacaaca tctgaaatga aatacctcta atagatgttt caacagcaca gtatcttcaa ggaagcaggt caccagatg ctggcagtgg ttgtaattct gtttgcccct ttatggatgc cctacaggac tctagtgggt gtaaacatcat ttctctccag tcctttccaa gaaaaattgg ttttgcctct ttgcagaatt tgcattttatc tcaacagtgc catcaacccg gtgatttaca atctcatgct ccagaaatcc cgtgcagcct tcagaaaagct ctgcaactgc aagcagaagc caacagagaa accgtctaac tacagtgtgg cctaaaatta cagcgtcatc aaggagtcag accatttcag cacagagctt gatgatatca ctgtcactga cacttacctg tctgccacaa aagtgtcttt tgatgacacc tgcttggtt ctgaggtatc ctttagccaa agttgattca tgaattagaa gaaaatggat gacaaaagaa ttgagaatct gtgcagtcac caacaaaagg gagaaacatg ccaatagtca tatgtgaaga cagagcagat cagcttttgt caatgctcta acaaacgg</p>	Homo sapiens
327	4944	Angiotensin II Type 1 Receptor	NM_000685	<p>LVLIICGLI VGNIMVLVW MRTKHMRTPT P ITYLYGLIN ASSCSITAPT FFLLDLINIS YKDAIVISCG NPIPSDPKEN SKTWKNDSTH PYRTLVVVNS FLSSPFQENW PTEKPANYSV ALNYSVIKES SEVSFSQS</p> <p>atcggagct gcctcctgc caatgattcc agcgcctgac agccaggacc ccaggcagca A gcgagtga gacgtctgg accggcgcgc cgctagcagc tctgccgggc cgcggcgggtg atcgatgggg agcggcttgg gcggaaccag cgaagtgggg cgcacagccg ggacgcccag gcggcgggcg ggagaccgc accagcgcag ccggccctcg cgggacgtg acgcagcgc cggggcgcgg gttgatatt tgacaaattg atctaaaatg gctgggtttt tatctgaata actcactgat gccatccag aaagtccgca ccaggtgtgtat ttgatatagt gtttgcaaca aatcgaccc aggtgatcaa aatgattctc aactcttcta ctgaagatgg tattaaaaga atccaagatg attgtcccaa agctggaagg cataattaca tattgtcat gattcctact ttatacagta tcatctttgt ggtgggaata ttggaaaca gcttggtgtg gatagtcatt tacttttata tgaagctgaa gactgtggcc agtgtttttc ttttgaattt agcactggct gacttatgct ttttactgac ttggccacta tgggctgtct acacagctat ggaataccgc tggccctttg gcaattacct atgtaagatt cttcagacca agctcagttt caacctgtac gctagtgtgt ttctactcac gtgtctcagc attgatcgat acctggctat tgttcacca atgaagtccc gccttcgacg caaatgctt gtgacccaaag tcacctgcac catcatttgg ctgctggcag gcttggccag tttgccagct ataattccatc gaaatgtatt ttctattgag aacaccaata ttacagtgtg tgctttccat tatgagtccc aaaattcaac ccttccgata</p>	Homo sapiens

328	4944	Angiotensin II Type 1 Receptor	NP_000676.1	<p>gggctgggccc tgacacaaaa tatactgggt ttctgtttc cttttctgat cattcttaca agttatactc ttatttggaa ggcctaaag aaggttatg aaattcagaa gaacaaacca agaaatgatg atatttttaa gataattatg gcaattgtgc ttttcttttt cttttcctgg attccccacc aaatattcac ttttctggat gtattgatcc aactaggcat catacgtgac tgtagaattg cagatattgt ggacacggcc atgcctatca ccaattgtat agcttatttt aaccaattgcc tgaatcctct ttttattggc tttctgggga aaaaaattaa agataatttt ctccagcttc taaaatatat tccccaaaa gccaaatccc actcaaacct ttcaacaaaa atgagcacgc tttctacccg cccctcagat aatgtaagct catccacca gaagcctgca ccatgttttg aggttgatg acatgttcga aacctgtcca taaagtaatt ttgtgaaga aggagcaaga gaacattcct ctgcagcact tcaactacca atgagcatta gctacttttc agaattgaag gaaaaaatgc attatgtgga ctgaaccgac ttttctaaag ctctgaacaa aagcttttct ttcttttgc aacaagacaa agcaaaagcca ctttttgcat tagacagatg acggctgctc gaagacaat gtcagaaact cgatgaatgt gttgatttga gaaattttac tgacagaaat gcaatctccc tagcctgctt ttgtcctggt atttttatt tccacataaa ggtattttaga atatatataa tcgttagagg agcaacagga gatgagagtt ccagatttgt ctgtccagtt tccaaaggcc agtaaaagttt tcgtgcggtt ttccagctat tagcaactgt gtcacacttg cacctggtac tgcacatttt gtacaagat atgctaagca gtatcgtca agttgcagat ctttttgtga aattcaacct gtgtcttata gttttacact gccaaaaaaa tgcccgtaag atggcttatt tgtataatgg tgttactaaa gtcacatata aaagttaaac tacttgtaaa ggtgctgcac tgggtcccaag tagtagtgct ctctagtagt attagtttga tttaatatct gagaagtga tatagtttgt ggtaaaaga tatatatca taaagtatgc cttctctgtt aaaaaagta tatattctac acatatatat atatgtatat ctatatctct aaactgctgt taattgatta aaacttgga aagttatatt tactttaaaa taaaataatt ttattgc</p>	Homo sapiens
329	4946	Angiotensin II Type 2 Receptor	NM_000686	<p>TVASVFLNL ALADLCFLLT LPLWAVVTAM EYRWPFGNYL CKIASASVSF NLYASVFLLT CLSIDRYLAI VHPMKSLRR TMLVAKVTCI IIWLLAGLAS LPAIIHRNVF FIENTNITVC AFHYESQNST LPIGLGLTKN ILGFLFPFLI ILTSYTLIWK ALKKAYEIQK NKPRNDDIEK IIMAIVLFFF FSWIPHQIFT FLDVLIQIGI IRDCRIADIV DTAMPITICI AYFNCLNPL FYGFLGKKFK RYFLQLLKYI PPKAKSHSNL STKMSTLSYR PSDNVSSSTK KPAPCFEVE acgtccacgc gtctgagaga acgagtaagc aagaattcaa agcattctgc agcctgaatt A ttgaaggagt gtgttaggc actaagcaag ctgatttatg ataactgctt taaacttcaa caaccaaagg cataagaact aggagctgct gacatttcaa tatgaaggcc aactccacc ttggccactac tagcaaaaac attaccagcg gctcttcaact cgggctgttg aacatctctg gcaacaatga gtctacactg aactgttcaac agaaacatc agataagcat ttagatgcaa ttcttatctt ttactacatt atatttgaat ttggatttct ggtcaatatt gtcgtgggta cactgttttg ttgtcaaaag ggtcctaaaa aggtttcttag catatacatc ttcaacctcg ctgtggctga ttactcctt ttggctactc ttctctatg ggcaacctat tattcttata gatatgactg gctcttttga cctgtgatgt gcaaaagttt ttgttctttt cttaccctga acatgtttgc aagcattttt ttatcacct gcatgaggtg tgatagggtac caatctgtca tctaccctt tctgtctcaa agaagaaatc cctgggcaagc atcttatata gtccccctg</p>	Homo sapiens

330	4946	Angiotensin II Type 2 Receptor	NP_000677.1	<p> ttdgtgtgtat ggctgttttg tctctattgc caacatttta ttttcgagac gtcagaaacca ttgaataactt agtagtgaat gcttgcatat tggctttccc acctgagaaa tatgcccacat ggtagctgg gattgacctt atgaaaaata tcttggtttt tattatccct ttaatatcca tagcaacatg ctattttgga attagaaaac acttactgaa gacgaatagc tatgggaaga acaggataac ccgtgaccaa gtcctgaaga tggcagctgc tgttggtctg gccttcata tttggtgctt tcccttccat gttctgacct tcttgatgc tctggcctgg atgggtgtca ttaatagctg cgaagtata gtagtcattg acctggacct tcttttgcc atcctcttg gattcaccaa cagctgctt aatcgtttc tgtattgtt ttttggaac cggttccaac agaagctccg cagtggttt aggtttccaa ttacttggct ccaagggaag agagagagta tgtctggccg gaaaagcagt tctcttagag aatggagac ctttggtct taaacggaga gcaaaatgca tgtaatacaac atggctactt gcttgaggc tcaccagaaat tatttttaag tggttttaat aaaaataaa aatttccct aatctttct gaatcttctg aaacaaatg taactatgtt tatcgtccag tgactttcag gaatgccat tgttttctga tatgtttgta caagatttca ttggtgagac atatttaca cctagaagta cctggtgata tatctcaaat tgtaattaat aatagattgt gaataatgat ttgggattc agatttctct ttgaacatg cttggtttc ttagtgggt tttatatcca tttttatcag gatttctct tgaaccagaa ccagctttc aactcattgc atcatttaca agaaacatt gtaagagaga tgagcacttc taagttagt atattataat agattagtag tggattatc aggttttag catatgcttc tttaaaacg ctataaata ttttctctt gcatcttact tgagtggag tttatagtta atctataact acatattgaa tagggctagg aatatagatt aatcatact cctatgcttt agcttatttt tacagttata gaaagcaaga tgtactataa catagaattg caatctataa tatttgtgtg ttactaaac tctgaataag cactttttta aaaaacttct actcatttta atgattgttt aaagtttct attttctctg atactttttt gaaatcagta aacatgtgt attgtgttaa aatgtaaagg tcacttttca catcctttag tttttagatg tgctgctttg atatabagga catgatttg attttatta ttaatgcttt ggttctgggt tgtttcctaa aatatctggg tggcttaaaa aaaactcttt aacttgtaat aaacctttaa ctggcatagg aaatggtatc cagaatgaa ttttgctaca tggggtctgg gtgggggcaa agagaccag tcaattacat gtttggtacc aagaaaggaa cctgtcagg cagtacaaatg tgactttgaa aatataacc gtgggggttag ttttacctta tatctataa cactgtttgt tccagaaatc gtatgattct atggagctat tttaaaccaa ttgcaggctt aga MKGNSLIATP SKNITSGJHF GLVNISGNE STLNCQKPS DKHLDAIPIL YYIIFVIGFL P VNIVVTLEFC CQKPKKVS IYIFNLAVAD LLLLATLPLW ATYYSRYDW LFGPVMCKVF GSFLTNMFA SIFFITCMSV DRYQSVIYPF LSQRNPWQA SYIVPLVWCM ACLSSLPTFY FRDVRTIEYL GVNACIMAFK PEKYAQWSAG IALMKNILGF IIPLIFIATC YFGIRKHLK TNSYGNRIT RDQVLKMAA VLAFLIWCIL PFHVLTFDLA LAMGVINSC EVIAVIDLAL PFAILLGFTN SCVNPFLYCF VGNRFQKLR SVFRVPITWL QGKRESMSR KSSSLREMET FVS </p>	Homo sapiens
331	5072	Pyrimidinerg ic Receptor P2Y4	NM_002565	<p> atggccagta cagagtcctc cctgttgaga tccctaggcc tcagcccagg tctgtggcagc A agtgggtgg agctggactg ttggtttgat gaggatttca agttcatcct gctgcctgtg agctatgcag ttgtctttgt gctgggcttg ggccttaacg ccccaacct atggctcttc atcttcgccc tccgaccctg ggatgcaacg gccacctaca tgttccacct ggcattgtca </p>	Homo sapiens

332	5072	Pyrimidinerg NP_002556.1 ic Receptor P2Y4	gacaccttgt atgtgctgtc gctgccacc ctcatctact attatgcagc ccacaaccac tggccctttg gcaatgagat ctgcaagttc gtcgcttttc tttctattg gaacctctac tgcagtgctc tttctctcac ctgcatcagc gtgcacgct acctgggcat ctgccacca cttcggggcac tacgtggggg cgcgcctgc ctcgcaggcc ttctctgctt ggcagtttgg ttggtcgtag cgggtgctc ctgcccacac ctgtcttttg tcacaaccag caacaaggg accaccgtcc tgtgccatga caccactcgg cctgaagagt tgaccacta tgtgcactc agctcggcgg tcattggggct gctctttggc gtgcctgccc tggtaactct tgtttgctat ggactcatgg ctgctgcct gtatcagccc ttgccaggct ctgcacagtc gtcttctcgc ctcgccttc tccgaacct agctgtgtg ctgactgtct ttgctgtctg ctctgtgctt ttcacatca ccgcacccat ttactacctg gccaggctgt tggaaagtga ctgccagta ctgaacattg tcaacgttgt ctataaagt actcgcccc tggccagtcg caacagctgc ctggatcctg tgcctactt gctcactgg gacaaatc gacgtcagct ccgtcagctc tgtgtgtgtg gcaagcccca gcccgccag gctgcctctt cctggcact agtgcctg cctgaggata gcaagctgcag gtggcgggcc acccccagg acagtagctg ctctactct aggcagata gatgtaa MASTESSLLR SLGLSPGGS SEVELDCWFD EDFKFILLPV SYAVFVLGL GLNAPTLWL P IFRLRPWDAT ATYMPHLALS DTLYVLSLPT LIYYAAHNH WPFGEICKF VRFLFYWNLY CSVLFLTCIS VHRYLICHP LRALRWGRPR LAGLLCLAVW LUVAGCLVFN LFEVTTSNKG TTVLCHDTR PEEFDYVHF SSVMGLLFG VPLVTLVVCY GLMARRLYQP LPGSAQSSSR LRLRTIAV LTVEAVCFVP FHITRIYYL ARLEADCRV LNIVNVYKV TRPLASNSC LDPVLYLLTG DKYRRLRQL CGGKGPQPRT ASSLALVSL PEDSSCRWAA TPQDSSCSTP RADRL	Homo sapiens
333	5117	Vasopressin NM_000706 V1A Receptor	taattgcttg aaggattttt tccagacagg tggctggaa acctttacc tattacctc A catccctgaa ccatttcaat ctctgcctc ctggatatct tggagaaat gaaccaaac aacacagctt tcagttttta gagcatttcc ccatacaga acattgtctt acttgatctt cccgatgacc tcaacaacag gaaaggcagg tcccttcatt tccattata agacgcacag accagatt atctagccac aggaagcagg actccagatt tcaagtcacg catctcaacg tgacaacctt ggtaaactcgt catgaacgga ctggatagta aagtgaatt attactgaga actgcaatga ataaaactt ttgcattttt tgcctacgtt tcacagaggg tgatatattt ctgaggcaat taaattata ccacggccac aatactgaaa cgttctgacc acaaaagtc tgctcctgca tctacacagc agataactgc agaaacggct tcccttctc ctgtaaaaat tgccctgaaa cagctcccc ttgctgtccg tcgaggcata tcttcccaa cgttaaaaa gagctgaggg agatcgcat tctgcctccc tcccgcctg cagaggggct ccagctgttc agagtaacgg attactaggt aggtgttgt ttcccctct tcccaggcc tcttctctt ctttgagatt gcctcttct tactctgag cacaggagcc gggcggttt tctgtccctt gccctggaca gcactgcctg gatggcgtg tcccgccagc tgctcttgt ccacccaaaa agatgtcccc acgactcagt agtaaccaga cgggtccccc gaccactgc ggccaaattt ccgcctatccc cgctgtggga atcaggcttt tcccgcagaa aacccagga atctagagaa aactccttaa gtccctagtc tccatagaga aaacaggag acactcccc caaacccgc tgtgaataca ggcacagcag ccactggggc ctgaaagtg tagtgcggtt ctcccgctg caacacatagg gtaataaata gcattgcatc aagacgttac taggaagaga tagctcttta	Homo sapiens

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aatggaaca tgcgtacta aaatatgcag gtctgatcc cagaaataca acagaagtta
tatttttaa ggaataatca taaccacct agctttatat tttgttgtta gtttcttta
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334	5117	Vasopressin V1A Receptor	NP_000697.1	PSGNSSPWPP LATGAGNTRSR EAEALGEGNG PPRDVRNEEL AKLEIAVLAV P TEFAVAVLGNS SVLIALHRTPT RKTSRMHLFI RHLSLADLAV AFFQVLPQMC WDITYRFRGP DWLCRVVKHL QVFGMEFASAY MLVVMADRY IAVCHPLKTL QQPARRSRML IAAWVLSFV LSTPQYFVFS MIEVNNVTKA RDCWATFIQF WGSRAYVTWM TGGIFVAPV ILGTCYGFIC YNIWCNVRGK TASRQSKGAE QAGVAFQKGF LLAPCVSSVK SISRAKIRTV KMTFVIVTAY IVCWAPFFII QMWSVWDPMs VMTESENPTI TITALLGSLN SCCNPWIYMF FSGHLIQDCV QSFPCQNMK EKENKEDTDS MSRRQTFYSN NRSPTNSTGM WKDSPKSSKS IKFIPVST	Homo sapiens
335	5118	Vasopressin V1B Receptor	NM_000707	ctcagccgc tgcacaccag gcagagcgag cgggcttggc tgggcttcc tgcctgagc A gcgacaccga ctgctccgga cgggcttcc aagcagctg aagggttcc gctctggct tcagaaaaag ttgtgagaaa gagaatttga ggcgatttg aggttggtg cccctccca gccttcttcc tctccagaa gctcactct gcacagctc cccacttct cagctctga tccccatct tcttgacccc tcttctccc tcttccagt ccatccagt cacatttct cctccgaat cctacctcc cctctctct cctccagt ccttgaacg atttccgct atttgaagc cttctccctg tcatctcaa cgttctcct tctctccac cctccctgcc actccatttt atccatcaa cctctccact tggatccaca cctcccttc atcttccct cccagcaaac ctgtctcatg gattctgggc ctcttgagg tgcacacccc accctcggg gcacctctc tgcaccaat gccacaacac cctggtggg ccgggatgag gagctggcca agtgagagat cggagtcctg gccactgtcc tgggtgtggc gaccggggc aacctggctg tgctgtgac cctggggccag ctgggcccga agcgttccc catgcaactg ttcgtgtgc acttagccct gacagacctg gccgtggcg tcttccaggt gctgcccag ctgctgtggg acatcaccta cggcttccag ggcgccgacc tctgtgcag ggcgtcaag tacctgcagg tgctcagcat gtttgcctcc acctacatgc tgttggccat gagctggac cgtacctgg ctgtctgtca cccctgcgc agctccagc agccaggcca gtccacctac ctgctcatcg ctgctccctg gctgtggcc gccatcttca gctccctca agtcttcat tttccctgc gggaggtgat ccagggtca ggggtgtgg actgtgggc agacttggc ttccttggg ggccagggc ctactcacc tggaccacc tggctatctt cgttctgccc gtgacctgc tcacggcctg ctacagctc atctgcatg agatctgtaa aaacctaaaa gtcaagacac aggcctggcg ggtggagga gggggtgga ggaactggga caggccctca ccttccact tagctgccac cactcggggg ctgccatctc gggtagcag catcaacacc atctcaggg ccaagatccg aacagtgaag atgacctttg tcatcgtgtt ggcctacatc gcttgcctgg ctcccttctt cagtgtccag atgtgttccg tgtgggacaa gaatgcccct gatgaagatt	Homo sapiens

Homo
sapiens

336 5118 Vasopressin NP_000698.1 MDSGLWDAN PTPRGLSAP NATTPWLGSD EELAKVEIGV LATVLVLATG KNLAVLLTLG P

V1B Receptor

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Homo
sapiens

337 5119 Vasopressin NM_000054 agaatatcct gggttctgtg catccgtctg tctgaccatc cctctcaatc ttccctgccc A

V2 Receptor

Accession	Gene	Protein	Species
338	Vasopressin V2 Receptor	5119	Homo sapiens
339	Peropsin	5133	Homo sapiens

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341	5519	Brain-Specific Angiogenesis Inhibitor 1	NM_001702	ggactttaga agccgttgcg cccctctctg tcacttgaag cggggccctc tccatccca A	Homo sapiens
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Brain-Specific Angiogenesis Inhibitor 1	NP_001693.1	MRGQAAPGP	VWILAPLLL	LLLLRRARA	AAGADAGPGP	EPKATLVQVK	FFGYFSAAAV	Homo sapiens
		FPANASRCSW	TLRNPDPRY	TLYMKVAKAP	VPCSGPGRVR	TYQFDSFLES	TRTYLGVESF	
		DEVLRLCDPS	APIAFLQASK	QFLQMRQQP	PQHDGLRPRA	GPPGPTDDFS	VEYLVVGNRN	
		PSRAACOMLC	RWLDACLAYS	RSSHPCGIMQ	TPCACLGGEA	GGPAAAGPLAP	RGDVCILRDV	

343	5520	Brain-Specific Angiogenesis Inhibitor 2	NM_001703	Genomic Sequence	Homo sapiens
				<p> GDGDFKKLD SELSRAQEKA LDTSYVILPT ATATLRPKPK EEPKYSIHID QMPQTRLIHL STAPEASLPA RSPSRQPPS GPPPEAPPAQ PPPPPPPPPP PQQPLPPPPP NLEPAPPSLG DPGEPAAHPG PSTGPSTKNE NVATLSVSSL ERRKSYAEL DFEKIMHTRK RHQDMFQDLN RKLQHAAEKD KEVLGPDSPK EKQQTENKRP WESLRKAHGT PTWVKKELEP LQSPLELRS VEWERSGATI PLVGQDIIDL QTEV ggcgcgcggg agagcgaggag cctcgccctt ccgcggggt gcagctacct accctgcgcc A cgcgcaggtc ccgcacttag gcatggcaaa cttgcgcccc gtgcgcggccc ccgccagcgc cggccccgc tccgtgctgt gacgcgcgcc aggaatacca gcagctggtt acatgtgacg tccacactga cagtgccttc ctgtgggcat cgtcaggtt ctcgcaggtt cctgggcacac tggctgtaac tccgcccc ttctccctc tcagtaaaagc aagattacgc ggtgacatgc ctacacgtg atcacgacac acggggatgg agagcaagag ttatggagaa tacaggttgg atgggcaagg gacataggat gacccagcc ttgcctctt tactgtctgt gattctgtcc ctgcctgg ccaccgctt cgaccgcgc cccagtgctt gctcgcctt ggcctcgggt gtctctacg gggccttct cctgcaggac ctcttctta ccatgcctc ggcctgcctc tggacctgg agaacctga ccccaaccaag tactccctt acctgcctt caaccgcag ggcaggtgt gcgcacctt tgcgccccc ctgctgcccc tggaccacta cctgggtaac ttacctgcc tgcggcctag ccccgaggag gcgttgcccc aggcggagtc agaggtggg cggccagaag aggagggagg agagcgggca gcgggggttg agctgtgacg cggctcaggc ccccttacct tccgtcactt cgacaagaac ttctgtcagc tgtgcctgtc ggcctgagccc tccgagcccc cgcgcctgct ggcgcgcgt cccctagcct tccgcttct gcaggtcttg ctcatcaaca acaacaactc tagccaattc accttggtg tgcctgctg ctgaggtgag gagtgtggcc gcgtgtcgg cagggcctgc gctttgttc agccagctg cagctgcct ggagagggcg ggcgcggctc caccaccac acatctccag gccctcctgc tgcacacac ctgtccaatg cctgtgtgcc cggggggccc gccccactg ctgaggccga ttgcactcg gggagcagca atgatctgtt cacaaccgag atgagatatg gtgaggagcc ggaagagga ccgaagtga aaaccagtg gccaggtct gcagatgagc ctgggctata catggcgccag acaggcgacc cggcggtga gtagtgttc cgtgtgagc tgtgttccct gacgtgtggg cagggtctgc aggtgcggac ccgctcctgt gtgtcctccc cctatggac cctgtgcagc gggccctgc gggagaccag gccctgcaac aattcagcca cctgccagt gcacggcgtg tgggaggagt ggggtcctg gacctgtgc tcccgagct gcggcgagg gtcccggagc cggatgcgga cctgcgtgc ccccgagcag ggcgggcaagg cctgcgagg tcctgagctg cagactaagc tctgcagtat ggtgcctgc ccggtggaag gccagtgggt agaattgggt cctgggggccc catgtccac gtctgtgcc aatgggaccc aacagcgag ccggaagtgc agcgtggcgg gcccagcctg ggcacatgc acgggtgccc tccctgacac ccgggagtg agcaacctg agtgcgggc cactgatgc aagtggggc catggaatgc gtggagcctg tgcctaaaga cgtgtgacac aggttggcag gcgcgttcc catgtgcca ggcacgggc acgcaggcct accctgcga gggcaccgga gagggtga agccttctag tgagaagagg tgtccagcct tccatgagat gtgcagggat gagtactga tgcctgatgc gtggaagaa gcagctgctg gcgagatcat ctacaacaag tgcctccga atgcctcagg gtctgccagc cgcgctgtc tccatagtc ccaaggcgtg gcgtactggg ggcctgcccag ctttgcctgc tgcattctcc atgagtaccg ctacctgtat ctgtcactta gggagacact ggccaaaggg </p>	

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344 5520 Brain- NP_001694.1 MTPACPLLS VILSLRLATA FDPAPSAACA IASGVLYGAF SLQDLFPTIA SGCSWTLENP P Homo sapiens
 Specific
 Angiogenesis
 Inhibitor 2

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345	5521	Brain-Specific Angiogenesis Inhibitor 3	NM_001704	Homo sapiens
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346 5521 Brain-Specific Angiogenesis Inhibitor 3 NP_001695.1 Homo sapiens

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 FVIVMVHCIL RREVQDAFRC RLRCQDPIN ADSSSSFNG HAQIMTDFEK DVDIACRSVL
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 LNQKFQTLDR FRDIPNTSSM ENPAPNKNPW DTFKNPSEYP HYTTINVLDT EAKDALELRP
 AEWEKCLNLP LDVQEGDFQT EV

347 6031 SIV/HIV Receptor B0N20 NM_006564 Homo sapiens

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[illegible]

Accession	Gene	Protein	Species
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6213	C-C Chemokine Receptor 5	NM_000579	Homo sapiens
351			

352	6213	C-C Chemokine Receptor 5	NP_000570.1	<p> aaaatatgtt gatgaaaaat agcaaccttt ttatctcccc ttcatatgca tcaagttatt gacaaactct cccttcactc cgaagtctcc ttatgtatat ttaaaagaaa gcctcagaga attgctgatt cttagattta gtgacttgaa cagaaatacc aaaattattt cagaaatgta caacttttta cctagtacaa ggcaacatat aggttgtaaa tgtgttttaa acaggctctt gtcttgctat ggggagaaaa gacatgaata tgattagtaa agaaatgaca cttttcatgt gtgattcccc ctccaaggtg ggaagcttct taaactgaa ggaatttgag ttggtatcatc ttgtgacctg gaagagctgg gcctcactgc aagcactgca tgggcaagct tggctgtaga tattgctggc aaagacagaa gctggttggg aagacatggg gaggaaggag aggcctagat catgaagaac aggagacaga gctggttggg taagtcctgc taagtcata gctgagcagg gagatcctgg ttggtgttgc cttgacggca ttgctccctc taagtcata gctgagcagg gagatcctgg ttggtgttgc agaaggttta ctctgtggcc aaaggagggt caggaaggat gagcatttag ggcaaggaga ccaccaacag ccctcaggtc aggttgaggg tggcctctgc taagctcaag gcgtgaggat gggaaggagg gaggtattcg taaggatggg aaggaggagg gtattcgtgc agcatatgag gatgcagagt cagcagaact gggttggtt ttggttgtaa gtgagggtca gagaggagtc agagagaatc cctagtcttc aagcagattg gagaaacctt tgaagaagaca tcaagcacag aaggaggagg aggaggttta ggtcaagaag aagatggatt ggtgtaaaag gatgggtctg gttgcagag cttgaacaca gtctcaccca gactccaggc tgtctttcac tgaatgcttc tgacttcata gatttcttc ccatccagc tgaataactg aggggtctcc aggaggagac tagatttatg aatacacgag gtatgaggtc taggaacata cttcagctca cacatgagat ctaggtgagg attgattacc tagtagtcat ttcattgggtt gttgggaggg ttctatgagg caaccacagg cagcatttag cacatactac acattcaata agcatcaaac tcttagttac tcattcaggg atagcactga gcaagcatt gagcaaaagg gtcccatata ggtgagggaa gcctgaaaaa ctaagatgct gcctgccag gcacacacag ttaggtatc attttctgca ttaaaccgtc aataggcaaa ggggggaggg gacatattca ttgggaaata agctgccttg agccttaaaa cccacaaaaa tacaatttac cagcctccgt atttcagact gaatgggggt ggggggggcg ccttaggtac ttattccaga tgcctctcc agacaaacca gaagcaacag aaaaaatcgt ctctccctcc ctttgaatg aaataacccc ttagtgtttg ggtatatcca tttcaaaaggg agagagaggg gttttttctt gttctttctc atatgattgt gcacatactt gagactgttt tgaatttggg gtagggctaa aacctatca gtacaggtaa ggtgagggaa tagtaagtgg tgagaactac tcaggggaatg aaggtgtcag aataataaga ggtgctactg actttctcag cctctgaata tgaacgtga gcatgtgtgc tgtcagcagg aagcaacgaa gggaaatgct ttctcttttg ctcttaagtt gtggagagtgc caacagtatg ataggacctt accctctggg ccaagtcaaa gacattctga catcttagta ttgtcatatt cttatgtatg tgaaggttac aaattgcttg aaagaaaaa tgcattctaata aaaaaacacc ttcta MDYQVSSPIY DINYTSEPC QKINVKQIAA RLLPPLYSLV FIFGVGNML VILINCKR P LKSMTDIYLL NLAISDIFFL LTVPFWAHYA AAQWDFGNM CQLLTGLYFI GFFSGIFFII sapiens LLTIDRYIAV VHAFFALKRF TVTFVVTSTV ITWVAVFAS LPGLIFRSQ KEGLHYTCSS HPYSQYQFW KNFTLKIVT LGLVPLLMV VICYSGLIKT LLRCRNEKR HRAVRLIFTI MIVYFLWAP YNIVLLNTF QEFFGLNCS SSNRLDQAMQ VTETLGMTHC CINPIIYAFV GEKFRNYLLV FFQKHIAKRF CKCCSIFQOE APERASSVYT RSTGEQEISV GL </p>	Homo sapiens
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353	6363	Chemokine (C-C motif) Receptor- like 2 (CCRL2)	NM_003956	tctgtctctg ggaagtgagg cacagcttaa aagaaatgtt tatttcagtc ttctgaaata gggaattact ctggctaaaa tgtagctcca gaaagggaaa gtgggctgt atgaatccag gtccagttg ttgttctctc caggataagg cagctgtcgg aggggaaaa catctcccat ttctccacag ggcagctga agatggccaa ttacacgctg gcaccagagg atgaatatga tgtctcata gaaggtgaac tggagagcga tgaggcagag caatgtgaca agtatgacgc ccaggcactc tcagcccgag tgggtccatc actctgctct gctgtgtttg tgatcgggtg cctggacaat ctctggttg tgcttatctt ggttaaatat aaggagctca aacgcgtgga aaatatctat ctctaaact tggcagtttc taacttgtgt ttcttgctta cctggccctt ctgggtctcat gctggggggg atcccatgtg taaaattctc attggactgt acttcgtggg cctgtacagt gagacatttt tcaattgcct tctgactgtg caaaggatcc tagtgttttt gcacaagggc aactttttct cagccaggag gaggtgtccc tgtggcatca ttacaagtgt cctggcatgg gtaacagcca ttctggccac ttgacctgaa tactgtgttt ataaacctca gatggaagac cagaaataca agtgtgcatt tagcagaact ccttccctgc cagctgatga gacattctgg aagcattttc tgactttaaa aatgaacatt tcggttcttg tctcccccct atttattttt acatttctct atgtgcaaat gagaaaaaca ctaagggttca gggagcagag gtatagcctt ttcaagcttg tttttgccat aatggtagtc ttcttcttga tgtgggcgcc ctacaattatt gcatttttcc tgtccacttt caaagaacac ttctccctga gtgactgcaa gagcagctac aatctggaca aaagtgttca catcatgcaa ccccccactg gtgcatcaac cctctctctgt atgctgtttct tgatgggaca tttagcaaat acctgtgccg ctgtttccat ctgctgtagt acacccact tcaacccagg gggcagctgt cacaaaggac atcgagggaa gaacctgacc attccacga agtgtaaact agcatccacc aatgcaaga agaataaaca tggattttca tcttcttga ttatttcagt taaattttct acacatttgt atacaaaatc ggatacagga agaaaaggga gaggtgagct aacatttgtt aagcactgaa tttgtctcag gcacctgca aggtctttta caaacgtgag ctctctcgcc tctaccact tgtccatagt gtggatagga ctagtctcat ttctctgaga agaaaaactaa ggcgcggaaa tttgtctaag atcacataac taggaagtgg cagaactgat tctccagccc tggtagcatt tgtctcagag ctacgcttgg tccagaacat caaactccaa acctgggga caaacgacat gaaataaatg tattttaaa catct	Homo sapiens
354	6363	Chemokine (C-C motif) Receptor- like 2 (CCRL2)	NP_003956.1	LILVYKGLK RVENIYLLNL AVSNLCFLLT LPFWAHAGGD PMCKILIGLY FVGLYSETFF NCLLTQRYL VELHKGFFS ARRVPCGII TSVLAWVTAI LATLPEYVYV KPQMEDQKYK CAFSRTPFLP ADETFWKHFL TLKWNISLV LPLFIFTFLY VQWRKTLRER EQRYSLFKL FAIMVFLM WAPYNIAFFL STFKEHFSLS DCKSSYNLDK SVHITKLIAT THCCINPLLY AFLDGTFSKY LCRCFHLRSN TPLQPRGQSA QGTSREEDPH STEV atgcgagccc cgggcgcgt tctcgccgc atgtcgccgc tactgtctct gctactgctc aaggtgtctg cctctctgc cctcggggtc gccctcgct ccagaaacga aacttgtctg ggggagagct gtgcacctac agtgatccag cgcgcgcgga ggcagcctg ggcagcggga aattctgcaa gagacgttct gcgagcccg gcacccagg aggagcagg ggcagcgttt cttgccggac cctctggga cctgcggcg gccccgggc gtgacccggc tgcagggcaga ggggcgagg cgtcggcagc cggaccccg ggaactccaa ccagggccacc tggccctgg agggtggaag gtgctcgggg tcaggagcct tctgaaactt tggggagagg gaacccacg	Homo sapiens
355	6446	Pael Receptor (GPR37)	NM_005302		Homo sapiens

356	6446	Pael Receptor (GPR37)	NP_005293.1	gcccctccagc tcttctcttca gatctcagag gaggaagaga aggttcccag aggcgctggc atttccgggc gttagccagg gtagagtgtg aagacagtcc ccggagccag cgatcttttt tactggccaa ggagagccgg gaaactccag ggttcccacc acaagccctt gtccaagacg gccaatggac tggcggggca cgaaggtggg acaattgcac tcccgggccc ggcgctggcc cagaatggat ccttgggtga aggaatccat gagcctgggg gtccccgccg gggaacagc acgaaccggc gtgtgagact gaagaacccc ttctaccgc tgaccaggga gtccctatgga gcctacggcg tcatgtgtct gtcctgtgtg atcttcggga ccggcatcat tggcaacctg gcggtgatgt gcatcgtgtg ccacaactac tacatcggga gcatctccaa ctcccctctg gccaacctgg ccttctggga cttctctcac atcttctctt gccttccgct ggtcatcttc cacgagctga ccaagaagtg gctgctggag gacttctcct gcaagatcgt gccctatata gaggtcgctt ctctgggagt caccacctc accttatgtg ctctgtgcac agaccgcttc cgtgctgcca ccaacgtaca gatgtactac gaaatgatcg aaactgttc ctcaacaact gccaacttg ctgttatatg ggtgggagct ctattgttag cacttccaga agttgttctc cgccagctga gcaaggaggga ttggtgggtt agtggccgag ctccggcaga aagtgcat attaagatct ctctgatatt accagacacc atctatgttc tagccctcac ctacgacagt gcgagactgt ggtggtattt tggctgttac ttttgtttgc ccacgctttt caccatcacc tgctctctag tgactgcgag gaaaatccgc aaagcagaga aagcctgtac ccgagggaa aaacggcaga tccaactaga gagtcatag aactgtacag tagtggcact gaccatttta tatggatttt gcattattcc tgaataatc tgcaacattg ttactgccta catggctaca gggttttcac agcagacaaat ggacctctt aatatacaca gccagttcct tttgttcttt aagtcctgtg tcacctctt cctcctttc tgtcttcga aaccttcag tcgggacctc atggagctgt gctgctgttg ctgtgaggaa tgcattcaga agctttcaac ggtgaccagt gatgacaatg acaacgagta caccacggaa ctgcaactct gccttttcag taccatacgc cgtgaaatgt ccacttttgc tctgtcga actcattgct ga	Homo sapiens
357	6536	Putative Neurotransmitter Receptor (PNR)	NM_003967	atgagagctg tcttcattca aggtgctgaa gagcaccctg cggcattctg ctaccagtg A aatgggtctt gcccagagc agtacatact ctgggcatcc agttggtcat ctacctgacc tgtgcagcag gcatgctgat tctcgtgcta gggaatgtat ttgtggcatt tgctgtgtcc tacttcaaa cgtctcacc gccaccacac tctcgtgtgc tctccctggc cctggctgac atgtttctgg gtctgctgggt gctgcccctc agcaccattc gctcagtgga gagctgctgg tctctcgggg acttctctctg ccgctctgac acctaccctg acacctctt ctgcctcacc	Homo sapiens

358	6536	Putative Neurotransmi- tter Receptor (PNR)	NP_003958.1	<p>MRVFIQGA EHPAAFCYQV NGSCPRTVHT LGIQLVIYLT CAAGMLIIVL GNVFVAFAVS P</p> <p>YFKALHTPTN FLLLSLALAD MFLGLLVLP L STIRSVESCW FFGDFLCRLH TYLDTLFLCLT</p> <p>SIFHLCTFISI DRHCAICDPL LYPSTFTVRV ALRYILAGWG VPAAYTSLFL YTDVETRLS</p> <p>QWLEEMPCVG SCQLLNKFW GWLNFPLFFV PCLIMISLYV KIFVATRQA QQITTLKSLS</p> <p>AGAAKHERKA AKTLGIWVGI YLLCWLPTFI DTMVDSLHF ITPPLVFDIF IWFAYFNSAC</p> <p>NPIIYVFSYQ WFRKALKLTL SQKVSFQTR TVDLYQE</p>	Homo sapiens
359	6777	G Protein- Coupled Receptor TM7SF1	NM_003272	<p>cggcgcgatg cgcggagacc ccgcgggggg cggcggcgcc cgtgagcccc gatgaggccc A</p> <p>gagcgtcccc ggcgcggcgg cagcgcccc cgcgcgatgg agaccccgcc gtgggaccca</p> <p>gcccgaacg actcgtgcc gccacgctg acccggccg tgcggcccta cgtgaagctt</p> <p>ggcctcaccg tcgtctacac cgtgttctac gcgtgctct ccgtgttcat ctacgtgcag</p> <p>ctctggctgg tgctgcgtta ccgccacaag cggctcagct ccagagcgt ctctctcttt</p> <p>ctctgectct tctgggectc cctgcggacc cctctctct cctctactt caaagacttc</p> <p>gtggcggcca attcgtcag cccctcgtc ttctgctgc tctactgct cctctgtgctc</p> <p>ctgcagtgtt tcacctcac gctgatgaac ttgtacttca cgcaggatgat ttccaagacc</p> <p>aagtcaaaat attctccaga attactcaaa taccgggtgc cctctacct ggcctccctc</p> <p>ttcatcagcc ttgttttctt gttggtgaat ttaacctgtg ctgtgctggt aaagacggga</p> <p>aattgggaga ggaaggttat cgtctctgtg cgagtggcca ttaatgacac gctctctgtg</p> <p>ctgtgtgccg tctctctct catctgtctc tacaataatc ctaagatgtc cttagccaac</p> <p>atttacttgg agtcccaagg ctcctccgtg tgtcaagtga ctgccatcg tgtcacccgtg</p> <p>atactgcttt acacctctg ggcctgctac aacctgtta tccgtgctt ttctcagaac</p> <p>aagagcgtcc attccttga ttatgactgg tacaatgtat cagaccaggc agatttgaag</p> <p>aatcagctgg gagatgctgg atcgtatta ttggagtggt tgttatttgt ttgggaactc</p> <p>ttacctacca ccttagtctg ttattcttc cgagttagaa atctacaaa ggaccttacc</p> <p>aacctggaa tggccccag ccattggattc agtccagat cttatttctt tgacaacctt</p> <p>cgaagatatg acagtatga tgacctgcc tggacaattg cccctcaggc acttcaggga</p> <p>ggttttctc cagattacta tgattgggga caaaaaacta acagcttctt ggcacaaagg</p> <p>ggaactttgc aagactcaac ttggatcct gacaaacaa gccttgggta gcatcagtta</p> <p>acagttttat ggacgatcc tcagatgaaa agcttcagaa aagcatagtg acagctgaat</p> <p>ttttagggca cttttcttta agaaatagaa cttgatattt atttgttaca ggtttccaat</p> <p>ggccccatag gaataagcaa taatgtagac tgataaaccc ttatttttagt actaaagagg</p>	Homo sapiens

360	6777	G Protein-Coupled Receptor TM7SF1	NP_003263.1	MRPERPRRG YVQLWLRLY RHKRLSYQSV PVCLQFFTLT KTGNERKVI VSVRVAINDT VTILLTSR ACYNLFILSF WELLPTLLV LQGGFAPDY	SAPGPMETPP FLFLCLFWAS LRTVLESFYF LLKYRLPLYL ASLEISLVFL ICLYKISKMS YDNWNSDQA HGFSRSPYFF AQAGTLQDST	WDPARNDSLP LRVLESLVFL LVNLTCAVLV SSVQCQVTAIG YVLFQGLVFLV DLANWIAPOG	Homo sapiens
361	6853	Purinergic Receptor P2Y11	NM_002566	atggatcgag agtgggttcc gccagcaatg gccgtggcgt tctctgttcca cctacctcta tctcttccac ctggagcgct agcctcaacc aagcacgcct acactcagct aggcccgagg gcgtatagcc gctacaggcg ctgcgtgtgg taccacatca agctttgcag caggtgatgc gcagtgcacca ccagagagag ccgtgcagagc	gtgccaagtc agggggactt gccgtggcct gctggcagtc cctacctata tcccccaag ctgcaacctg tctacctcga gctacctggg gggccgtgag tctccacct cctgeatcaa tgggtgtggc cctcggcg ccctcggcg ctgcgtgtgg taccacatca agctttgcag caggtgatgc gcagtgcacca ccagagagag ccgtgcagagc	cgagctgccc tctgctgctc agcgtgcccgc tcatcttcac caactgcatc cctgcgaccc ggcctatgccc cagcgtggcc cagcgtggcc ggcctacaga cagcgtggcc cagcgtgctc ggcgagaaag ctatgtgccc cgcctgcccc cgtgggctac cctcatggcc cagctgggaa cgcctccata atgccacagc	cgacaaactc A
362	6853	Purinergic Receptor P2Y11	NP_002557.1	MDRGAKSCPA AVFESVQLAV SLNRYLGIVH RPEACIKCLG LRVAALVASG	NFLAAADTKL PFLAAYLYPK KHAWAVSAAG AYSLVLAGLG YHIMRVLNVD	ASNGLALYRF LERFLFTCNL TLFSLKLRP QQGAGNCSPA RSPGMTVAEK SEADIAQATA ALELGPYVGY	Homo sapiens

Accession	Gene	Protein	Species
366	Galanin Receptor GalR2	NP_003848.1	Homo sapiens
7221	Orexin Receptor 1	NM_001525	Homo sapiens
367	Galanin Receptor GalR2	NP_003848.1	Homo sapiens
7246	Orexin Receptor 1	NM_001525	Homo sapiens

368	7246	Orexin Receptor 1	NP_001516.1	MEPSATPGAQ MGVPGRSREP SPVPPDYDE FLRLWRDYL YPKQYEWVLI AAYVAVFVVA P LVGNTLVCLA VWRNHMRIV TNYFIVNLSL ADVLVTAICL PASLLVDITE SWLFGHALCK VIPYLOAVSV SVAVLTLSEI ALDRWYAICH PLLEFKSTARR ARGSSILGIWA VSLAIMVPOA AVMECSSVLP ELANRTRLES VCDERWADDL YPKIYHSCFF IVTYLAPLGL MAMAYFQIFR KLWGRQIPGT TSALVRNWKR PSDQLGDLEQ GLSGEPQPRG RAFLAEVKQM RARRKTKML MVLLVFALC YLPISVLNVL KRVFGMFRQA SDREAVYACF TFSHWLVYAN SAANPIIYNE LSGKFREQFK AAFSCCLPGL GPCGSLKAPS PRSSASHKSL SLQSRCSISK ISEHVLTSP TTVLP	Homo sapiens
369	7247	Orexin Receptor 2	NM_001526	gggggggggg taattgagct tcagctgagc cggacgtagc ttctctctcc tgggtgctcatt A gctgcagcct ccagtgccgg gtccttagtt cctcagctgc ctatctctcc ggtgcaacat cgctgtgtaa gacagcaaaag ccaccgcaga agttgcccg gagaagactc cggaggcatt ggctcagtaa cttttcagct catthttctgc tcgggagccc cttctagcct ctccgcgcag cctttccac cgcaaatcac cagtgctcat ggggcaggcg gagaggagct tgcagcattg agcggaaacg cacttgagcc cgtgatgtcc ggcaccaaat tggaggactc cccccctgt cgcaactggt catctgcttc ggagctgaat gaaactcaag agcccttttt aaacccccac gactatgacg acgaggaatt cctgcggtac ctgtggagg aatacctgca ccgaaagaa tatgagtggg tcctgatcgc cgggtacatc atcgtgttcg tcgtggctct cattgggaac gtcctggttt gttggcaggt gtggaagaac caccacatga ggacggtaac caactacttc atagtcaatc ttctctgac tcatgagac ctggtttttt ggacagtccc ttgcaaat gattccttat gtcgtgggata tcatgagac tctggttttt ggacagtccc ttgcaaat gattccttat ctacagaccg tctcgtgtgc tctcgtgtgc ctacacactga gctgtatcgc cttggatcgg tggatgcaa tctgtcacc ttigtatgtt aagagcacag caaagcgggc ccgtaacagc attgtcatca tctggattgt ctctgcatt ataattgatt ctcaggccat cgtcatggag tgcagcacg tgtcccagg cttagccaat aaacccacc tctttacggt gtgtgatgag cgctggggtg gtgaaattta tcccaagatg taccacatct gtttctttct ggtgacatac atggcaccac tgtgtctcat ggtgttggt tatctgcaaa tatttcgcaa actctggtgt cgacagatcc ctggaacatc atctgtagt cagagaaaat ggaagcccc gcagcctgtt tcacagctc gagggccagg acagcaacg aagtcgccga tgagcgtgt ggcggctgaa ataaagcaga tccgagccag aaggaaaaa gcccgatgt tgatggttgt gcttttggtg tttgcaattt gctatctacc aattagcctc ctcaattgtc taaagagagt atttgggagt tttgccata ctgaagacag agagactgtg tatgcctgtt ttacctttc acactggctt gtatatgcca atagtgtgc gaatccaatt attataatt ttctcagtgg aaatttcga gaggaaattta agctgcgtt ttctgtctgt tgcctggag ttcaccatcg ccaggaggat cggctcacca ggggacgaac tagcacagag agccgggaagt ccttgaccac tcaaatcagc	Homo sapiens

370	7247	Orexin Receptor 2	NP_001517.1	<p> aactttgata acatatcaaa actttctgag caagttgtgc tcactagcat aagcacactc ccagcagcca atggagcagg accacttcaa aactgttaga atattatttc atattgacaag gatacctgag taaaactatc ctttttaaaa tcaactgggaa cagaaaattttt attatcctat gatgtgaagc taaaattact tgtggatctt tttttttttt aatctattgc tctttggaaa taaaaaaaa gtcagtttaa aatgaaaaaa aaaaaaaa aaa MSGTKLEDSF PCRNSSASE INETQEPFLN PTDYDDEEFL YLWMREYLHP KEYEWVLIAG P YIIVFVALI GNVLCVAVW KNHMRTVTN YFIVNLSLAD RLVMTITCLPA TLVVDITETW FFGQSLCKVI PYLQTVSVSV SVLTLSIAL DRWYAICHL MFKSTAKRAR NSIVIIWIS CIIMIPQAIW MECSTVFPGL ANKTTLTVC DERWGGEIYP KMYHICFFLV TYMAPLCLMV LAYLQIFRKL WCRQIPGTSS VVQRKWKPLQ PVSQPRGPGQ PTKSRMSAVA AEIKQIRARR KTARMLMVVL LVFAICYLPI SILNVLKRVF GMFAHTEDRE TVYAWFTFSH WLVIYANSAAN PIIYNFLSGK FREEFKAAFS CCCLGVHHRQ EDRLTRGRTS TESRKSLLTQ ISNFDNISKL SEQVLTSSIS TLPANGAGP IQNW </p>	Homo sapiens
371	8436	Platelet- Activating Factor Receptor	NM_000952	<p> ccagctgata ttccagccca cagcaatgga gccacatgac tctctccaca tggactctga A gttccgatac actctcttcc cgattgttta cagcatcatc tttgtgctcg gggctcattgc taatggctac gtgctgtggg tctttgcccg cctgtaccct tgcaagaaat tcaatgagat aaagatcttc atggtgaacc tcaccatggc ggacatgctc ttttggatca ccttgccact ttggattgtc tactaccaaa accagggcaa ctggatactc cccaaattcc tgtgcaacgt ggctggctgc cttttcttca tcaaacacta ctgctctgtg gccttccctg gcgctcatcac ttataaccgc ttccaggcag taactggcc catcaagact gctcaggcca acaccgcaa gcgtggcacc tttttgtcct tggctcatctg ggtggccatt gtggagctg catcctactt cctcatcctg gactctacca acacagtgc cgacagtgc ggtcaggca acgtcactcg ctgctttgag cattacgaga aggcagcgt gccagtcctc atcatccaca tcttcatcgt gttcagcttc tctctggtc tctctatcat cctctctgc aacctggtca tcatcctgac cttgctcatg cagccgtgc agcagcagc caacgtgaa gtcaagcgc gggcgtgtg gatgggtgc acggtcttgg cgggttctcat catctgcttc gtgcccacc acgtggtgca gtgcccctgg acccttgctg agctgggctt ccaggacagc aaattccacc aggccattaa tgatgcacat caggtcaccc tctgctcctc tagcaccaac tgtgtcttag acctgttat ctactgttc ctcaccaaga agttccgcaa gcacctcacc gaaaagtctt acagcatgcg cagtagcccg aatgctccc gggccaccac ggatacggc actgaagtgg ttgtgccatt caaccagatc cctggcaatt cctcaaaa ttagtctctg cttc MEPHDSSHMD SEFRYTLFPI VYSIIFVLGV IANGYVLWVF ARLYPCKKFN EIKIFMNLTP P MADMLFLITL PLWIVYYQNG GNWILPKFLC NVAGCLFFIN TYCSVAFLGV ITYNRFQAVT RPIKTAQANT RKRGISLSLV IWVAIVGAAS YFLILDSTNT VPDGAGSGNV TRCFEHEYKNG SVPVLIHIF IVSFFLVL IILFCNLVII RLLMLPVQQ ORNAEVKRRR LWMVCTVLAV FIICEVPHHV VQLPWTLAEL GFQDSKFHQA INDHAQVTLCL LLSTNCVLDLP VIYCFLTKEF RKHLTEKFYS MRSSRKCSRA TTDVTVEVV PFNQIPGNSL KN </p>	Homo sapiens
373	8509	G Protein- Coupled Receptor Ls8509	NM_007223	<p> tgggggcgct ctccttcgt cccgcccgc tgtcaagctg tgttctagcg gccgaggac A cgaggggggc taagaaaagg ggcgcccagc catgcagagg caaaaaggcg ctgagggaacg gggtccccgt cgccagtgc gaggcaggag gtcggagcca caagtaggcg gctggggaagc aggacccagc acgggcgtct tggcaggcgg ccggggcgag gccaggctg ctgggggacgc </p>	Homo sapiens

tcagggtctt ccaccaagc catgggcgt tacttggt tacatgcc atccagctc cgggggtccc ctctgtgctc
cggccactcg gcgtgggcat tagcttcgg caaacgttc tctccgct aaggagagg gtcgagtgcg
ggactgaaaa atagcttcgg gggactggag aggatgcc tagccctega gggcgagg acccgcggtt
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gaaggaggca gcgggagcgg agagcgcct ccttgacct cgaatgcctc ctctctgtgt
tccattcctg tcgagtggc tgggccacgc tgaccacct tgaggagga cggacgacgc
tcggcgggct ctgacctgc cgccttctg cgccttctg tggtgtcca ggaaggagt
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gcggtccct cctcacccgc agtcccag ctcgccatgg gacataacgc gactggatc tctccaaatg
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ccagcgagcc gcacaaagcgc tccggcgccg agctgcggg tgtgaaccgc agcgcgctcg
gggagttcgg cgaggcgag ctgtaccgc agttaccac caccgtgcag gtcgtcatct
tcataggctc gctgctcga aacttcattg tgttatggt aactgcgc aacccgtgt
tcaaatctgt caccacagc ttcattaaa acctgccctg ctcggggatt tgtgccagcc
tggtctgtgt gcccttcgac atcatcctca gaccagtc tcaactgttc tgggtgatct
acaccatgct cttctgcaag gtcgtcaaat ttttgcaaa agtattctgc tctgtgacca
tctcagctt cctgctat gctttgaca ggtactact agtctctat ccaactggaga
ggaaaatc tgatgccag tccgtgaac tgggtatgta catctgggc catgcagtgg
tgccagtg cctgtgttt gcagtaacca atctggtga catctatgc acgtccacct
gcacggaagt ctggagcaac tcttgggc accgtgtgt cgttctgtg tataacatca
ccacggtcat tgtcctgtg tgggtgtgt tctcttctt gatactgac cgacgggccc
tgagtgcag ccagaagaag aaggtcatca tagcagcgt ccggaccca cagaacacca
tctctatcc ctatgcctcc cagcgggagg ccgagctgca cgcacccctg ctctccatgg
tgatgtctt catcttgtt agcgtgccct atgccacct ggtcgtctac cagactgtgc
tcaatgtccc tgacactcc gctctcttc ctcttctta ctgtgaacaa atctgtccg aagtgttga
ccctgctggc aaacctgtt ccttcttctta caccacggc acagtgcgc taatgtgtc agtacaggga
tagggacct ggtgcaacta caccacggc ctggaacca gctacgctc ggttagccag ctctggaga
gtggcatggc tgaggccagc agatcttcta agccacaga ggtagggaa gagagtggg
tgttccacat tgggcagcag cagatcttcta agccacaga ggttagggaa gagagtggg
ccaagtacat tggctcagct gacttccagg ccaaggagat attagcacc tgcctggagg
gagagcagg gccacagttt gcgcctctg cccacccct gagcacagt gactctgtat
cccagggtggc accggcagc cctgtggaac ctgaaacatt cctgataag tcttccctgc
agtttgctt tgggcctttt gacttgcctc ctcagtggt ctcagagacc cgaacagca
agaagcggct gcttcccccc tgggcaaca cccagaga gctgatccag acaaaggctc
ccaaggtagg cagggtggag cggaaatga gcagaaacaa taaagtgcg attttccaa
aggtggattc ctaggcaagg ttgtaaatc ttggaagcaa cggggggctt ccatattccc
accagagtgt gggaaatgtg tggccatgt attgtatgat ctccttgcaa ctcagtgtga
gttgattcct ccaataggg ccagatgctt ttgaatgata gggaaatcta cataaaatcc
agtgtcctt ttattgagg agtatatga tccatctcag tgatccatgt ccttagtgaa
gtccacatta ttctctgtg ggacaagagc tgggcagttt tgaatgggtc ttgaggtggg

374	8509	G Protein- Coupled Receptor Ls8509	NP_009154.1	taccccatgt gcactttctg aggatgcctc acttccctgg gctctgcaga gaacacacag agagaagact ttcagagctc acaggagag ggagcaggag cactctaagg gaattc MGHNGSWISP NASEPHNAG AEAAGVNRSA LGEFGEAQLY RQFTTVQVV IFIGSLLGNF P MVLWSTCRIT VEKSVTRFI KNLACSGICA SLVCVPFDII LSTSPHCCWW IYTMFLCKVV KFLHKVCSV TILSFPAIAL DRYYSVLVPL ERKISDAKSR ELVMIWAHA VVASVPVFAV TNVADIYATN TCEVWSNSL GHLVYVLVN ITTVIVPVV VFLELILRR ALSASQKKKV IIAALRTPQN TISIPYASQR EAEHLATLLS MVMFILCSV PYATLVVYT VLNVPDTSVF LLLTAVWLPK VSLLANPVL F LTVNSKVRK LGTLVQLHH RYSRNVVST GSGMAEASLE PSIRSGSQLL EMFHIGQQOI FKPTEDDEES EAKYIGSADF QAKEIFSTCL EGEQGQFAP SAPPLSTVDS VSQVAPAPV EPETFPDKYS LQFGFGPFEL PPQWLSETRN SKRLLPLPLG NTPEELIQTK VPKVGRVERK MSRNKVSIF PKVDS	Homo sapiens
375	8896	Neuropeptide Y Receptor Type 6 Pseudogene	NM_006173	ttgataggga tagaaacaca ttggcctgct tctatagtta acaagatgct gtacatttcc A ttgcctcact agctctgaag actatactag cgggacaaaag aaagcacctg agatgagctg agaggagggt aaaggtacac agagatcccc ttgatatttg ttctatgtcc tctcaggggc tttgctacca ctagagaatt atccatatta agaacttgca ttgatattct ggtttctgtt tcatttttta gggctcgaag agcacgctca agtcattcac atgtttccat caaatacaga cacagatcag ggaagattaa accctactaa ttctcgtcg gatgcctcac acaagggtgc cttccaagaa ctaatggcca aaatatccac ccacaacaca aataagctta gaaaattctct tcttacaatc ctgacacaaat ggaagtttcc ctaaaccacc cagcatctaa tacaaccagg acaaagaaca acaactggc atttttttac tttagtctct gtcaacctcc ttctccagct ttactcctat tatgcatagc ctatactgtg gtcttaattg tgggcttttt tggaaacctc tctctcatca tcatcatctt taagaagcag agaaaagctc agaatttccac cagcatactg attgccaatc tctccctctc tgataccttg ggtgtgtgca ttgtcatcca ttttactatc atctacactc tgatggacca ctggatattt ggggatacca ttgtcagact cacatcctat gtgcagagtg tctcaatctc tgtgtccata ttctcacttg tattcactgc tgtcgaaga tatcagctaa ttgtgaaccc ccgtggctgg aagcccagtg tgactcatgc ctactggggc atcacactga ttgggtgtgt tcccttctct ctgtctattc ccttcttct gtcctaccac ctcactgatg agcccttccg caacctctct ctccccactg acctctacac ccaccagtg gcctgtgtgg agaactggcc ctccaaaaag gaccggctgc tcttcaccac ctcccttttt ctgctgcagt attttgttcc tctaggcttc atctcatct gctacttgaa gattgttatc tgcctccgca ggagaaatgc aaaggtagat aagaagaagg aaaaagagg ccggtcctaat gagaacaaaga ggatcaacac aatgttgatt tccatcgtgg tgaccttgg agcctgctgg ctgccccgaa tatcttcaat gtcactcttg actggatatca tgagggtgctg atgagctgcc accacgacct ggtatttgta gtttgccact tgggtgctat ggtttccaca tgtataaacc ctctctttta tggctttctc acaaaaaatt tccaaaagga cctggtagtg cttattcacc actgctgggtg cttcacacct caggaaagat gtgaaaaat tggccatctcc actatgcaca cagactccaa gaggtcttta agattggctc gtataaacac aggtatatga aaattgataa tgctgaagct cttcttgaat gggagctgga caggtaatgg tgggaatagg gcaagatgca gaaagaagaa accagaacca aaaaatagcaa ctttataccc acttttctt taggctaaga ctgacctgtct catatgtcta tccaacacac cctccaaat acacgaacac acataccacc ccttttctct taagaaaaata actctaataa ttcaaacacac ctgcccggca tcatttggg	Homo sapiens

376	8896	Neuropeptide Y Receptor Type 6 Pseudogene	NP_006164.1	caagaatga gaatgagaaa gcagagagag aggcaaacag cagtgatggc tggggaacaa tgttcacaga tacttttatt caatggata tctacaaag ttatgactaa tgatagcct agtaaaaca ctgctatacc tccttagcac tgagaat mevslnhpas nttstknns affyfesqsp pspallllci aytvvlivgl fgnslslili P fkkrkagnf tsilianlsl sdtlvcvnci hftiiytlmd hwifgdtmcr ltsyvsqsvsi svsifslvft averyqlivn prgwksvth aywgitiwl fsllslipff lsyhltdpfi rnslsptdly thqvacvenw pskkdrllft tsflflgyfv plgfillicyl kiviclrrrn akvdkkkene grlnenkrin tmlisivvtf gacwlpriiss mssltgimrc cattccacc ctctctctt taataagcag gagcgaaaa gacaaattcc aaagaggatt A gttcagttca agggaatgaa gaattcagaa taatttggt aaatggattc caatctcggg aataagaata agctgaacag ttgacctgct ttgaagaaac atactgtcca ttgtctaaaa ataatctata acaaccaaac caatcaaat gaattcaaca ttattttccc aggttgaaaa tcattcagtc cactctaatt tctcagagaa gaatgccacg ctctggctt ttgaaaaatga tgattgtcat ctgccccttg ccatgatatt taccttagt ctgtctatg gagctgtgat cattcttggt gtctctggaa acctggcctt gatcataatc atcttgaaac aaaaggagat gagaaatggt accaacatcc tgattgtgaa cctttccttc tcagacttgc ttgttgccat catgtgtctc cctttacat ttgtctacac ataatggac cactgggtct ttgttgaggc gatgtgtaag ttgaatcctt ttgtgcaatg tgtttcaatc actgtgtcca tttctctct ggttctcatt gctgtggaac gacatcagct gataatcaac cctcgagggt ggagacaaaa taatagacat gcttatgtag gtattgctgt gattgggtc cttgctgtgg ctctctctt gccttctctg atctaccaag taatgactga tgaagcgttc caaaatgtaa cacttgatgc gtacaaagac aaatacgtgt gctttgatca atttccatcg gactctcata ggttgcttta taccactctc ctcttggtgc tgcagtattt tggctccact tttttatat ttatttgcta ctcaagata tatatacgcc taaaaaggag aaacaacatg atggacaaga tgagagacaa taagtacagg tccagtgaaa ccaaaagaa caatatcatg ctgctctcca ttgtggtagc atttgcagtc tgctggctcc ctcttaccat cttaaacact gtgttgatt ggaatcatca gatcattgct acctgcaacc acaatctgtt attcctgctc tgccacctca cagcaatgat atccacttgt gtcaacccca tattttatgg gtctctggaac aaaaacttcc agagagactt gcagttcttc ttcaactttt gtgatttccg gtctcgggat gatgattatg aaacaatagc catgtccacg atgcacacag atgtttccaa aacttctttg aagcaagcaa gccagtcgc atttaaaaa atcaacaaca atgatgataa tgaaaaaatc tgaactact tatagcctat ggtcccggtat gacatctgtt taaaaacaag cacaacctgc aacatactt gattacctgt tctcccaagg aatggggttg aaatcatttg aaaaactga agattttctt gtcttgcttt ttactgcttt tgttgtagtt gtcataaatta catttggaac aaaaaggtgtg ggcttggggg tcttctggaa atagttttga ccagacatct ttgaagtgtc ttttgtaagt ttatgcatat aatataaaga cttttatact gtacttattg gaatgaaatt tctttaagt attacgatgc gctgacttca gaagtacctg ccattccaata cggtcattag attgggtcat ctgtattaga ttagattaga tttagattgtc aacagattgg gccatcctta ctttatgata ggcattcatt tagtgtgtta caatagtaac agtatgcaaa agcagcattc agagccgaa agatagctct gaagtcattc agaagtgtt tgaggtttct gttttttggt ggtttttggt ttgttttttt tttttcacc ttaaggggagg ctttcatttc ctccccactg attgtcactt aaatcaaat	Homo sapiens
377	9421	Neuropeptide Y Receptor Type 1	nm_000909	caagaatga gaatgagaaa gcagagagag aggcaaacag cagtgatggc tggggaacaa tgttcacaga tacttttatt caatggata tctacaaag ttatgactaa tgatagcct agtaaaaca ctgctatacc tccttagcac tgagaat mevslnhpas nttstknns affyfesqsp pspallllci aytvvlivgl fgnslslili P fkkrkagnf tsilianlsl sdtlvcvnci hftiiytlmd hwifgdtmcr ltsyvsqsvsi svsifslvft averyqlivn prgwksvth aywgitiwl fsllslipff lsyhltdpfi rnslsptdly thqvacvenw pskkdrllft tsflflgyfv plgfillicyl kiviclrrrn akvdkkkene grlnenkrin tmlisivvtf gacwlpriiss mssltgimrc cattccacc ctctctctt taataagcag gagcgaaaa gacaaattcc aaagaggatt A gttcagttca agggaatgaa gaattcagaa taatttggt aaatggattc caatctcggg aataagaata agctgaacag ttgacctgct ttgaagaaac atactgtcca ttgtctaaaa ataatctata acaaccaaac caatcaaat gaattcaaca ttattttccc aggttgaaaa tcattcagtc cactctaatt tctcagagaa gaatgccacg ctctggctt ttgaaaaatga tgattgtcat ctgccccttg ccatgatatt taccttagt ctgtctatg gagctgtgat cattcttggt gtctctggaa acctggcctt gatcataatc atcttgaaac aaaaggagat gagaaatggt accaacatcc tgattgtgaa cctttccttc tcagacttgc ttgttgccat catgtgtctc cctttacat ttgtctacac ataatggac cactgggtct ttgttgaggc gatgtgtaag ttgaatcctt ttgtgcaatg tgtttcaatc actgtgtcca tttctctct ggttctcatt gctgtggaac gacatcagct gataatcaac cctcgagggt ggagacaaaa taatagacat gcttatgtag gtattgctgt gattgggtc cttgctgtgg ctctctctt gccttctctg atctaccaag taatgactga tgaagcgttc caaaatgtaa cacttgatgc gtacaaagac aaatacgtgt gctttgatca atttccatcg gactctcata ggttgcttta taccactctc ctcttggtgc tgcagtattt tggctccact tttttatat ttatttgcta ctcaagata tatatacgcc taaaaaggag aaacaacatg atggacaaga tgagagacaa taagtacagg tccagtgaaa ccaaaagaa caatatcatg ctgctctcca ttgtggtagc atttgcagtc tgctggctcc ctcttaccat cttaaacact gtgttgatt ggaatcatca gatcattgct acctgcaacc acaatctgtt attcctgctc tgccacctca cagcaatgat atccacttgt gtcaacccca tattttatgg gtctctggaac aaaaacttcc agagagactt gcagttcttc ttcaactttt gtgatttccg gtctcgggat gatgattatg aaacaatagc catgtccacg atgcacacag atgtttccaa aacttctttg aagcaagcaa gccagtcgc atttaaaaa atcaacaaca atgatgataa tgaaaaaatc tgaactact tatagcctat ggtcccggtat gacatctgtt taaaaacaag cacaacctgc aacatactt gattacctgt tctcccaagg aatggggttg aaatcatttg aaaaactga agattttctt gtcttgcttt ttactgcttt tgttgtagtt gtcataaatta catttggaac aaaaaggtgtg ggcttggggg tcttctggaa atagttttga ccagacatct ttgaagtgtc ttttgtaagt ttatgcatat aatataaaga cttttatact gtacttattg gaatgaaatt tctttaagt attacgatgc gctgacttca gaagtacctg ccattccaata cggtcattag attgggtcat ctgtattaga ttagattaga tttagattgtc aacagattgg gccatcctta ctttatgata ggcattcatt tagtgtgtta caatagtaac agtatgcaaa agcagcattc agagccgaa agatagctct gaagtcattc agaagtgtt tgaggtttct gttttttggt ggtttttggt ttgttttttt tttttcacc ttaaggggagg ctttcatttc ctccccactg attgtcactt aaatcaaat	Homo sapiens

378	9421	Neuropeptide Y Receptor Type 1	NP_000900.1	<p> tataaatga ataaaaagac atactttctca gctgcaataa ttatggagaa ttgggcaccc acaggaatga agagagaaag cagctcccca acttcaaac catttggtga cctgacaaca agagcatttt agagtaatta atttaataaa gtaaatagat attgctgcaa atagctaaat tatattttatt tgaattgatg gtcaagagat ttccattttt ttctacagac tgttcagtggt ttgtcaagct tctggtctaa tatgtactcg aaagactttc cgttacaaat ttgtagaaac acaaatctcg ttctccatac agcagtgcct atagtgtac tgattttaac ttcaaatgtc catctttcaa aggaagtaac accaaggtac atgtgtaaag gaattattcac ttacactagc aggaaaaat acacaaaaac tgcagatact tcatataagc caatttaact tttataaact gtgtgacttg tggcgtctta taaataatgc actgtaaaga ttactgaata gttgtgtcat gttaatgtgc ctaatttcat gtatcttgtga atcatgattg agcctcagaa tcatttggag aaactatatt ttaagaagaca agacatactt caatgtatta tacagataaa gtattacatg tgtttgattt taaaaggcg gacattttat taaaatcaat attgtttttg ctttttctga ggagtctctt tcagtttcat ttttctcat cccatgactt cctccgagtg gt MNSTLFSQVE NHSVHSNFESE KNAQLLAFEN DDCHLPLAMI FTLALAYGAV IILGVSGNLA P LIIILKQKE MRNVNIIIV NLSFSDLLVA IMCLPFTFVY TLMDDHWVGE AMCKLNPFVQ CVSITVSIFS LVLIIVERHQ LIINPRGWRP NNRHAYVGIA VIWVLAVASS LPFLIYQVMT DEPFQNVTLID AYKDKYVCFD QFPSDSHRLS YTTLLLVLOQ FGPLCFIFIC YFKIYIRLKR RNNMMDKMRD NKYSRSETR INIMLLSIVV AFVAVCWLPIT IENTVFDWNH QIIATCNHNL LFLLCILHTAM ISTCVNPIFY GFNLKNFQRD LQFFNFECDF RSRDDDDYETI AMSTMHTDVS KTSLKQASPV AFKINNND NEKI agccgagcga gcccgagat gggaggcgac ccgagctcc gtctcgtcaa ggccttctc A cttctggggc tgaaccccg tctgcctcc ctccaggacc agcactcga gagcctgtcc ctggccagca acatctcaga caatggctac cgggagtgc ttggccaatgg cagctgggccc gcccgcgta attactcga gtgccaggag atcctcaatg aggagaaaaa aagcaagggtg cactaccatg tcgcagtcac catcaactac ctgggccact gtatctccct ggtggccctc ctggtggcct ttgtcctctt tctgcggctc aggagcatcc ggtgcctgcg aaacatcatc cactggaacc tcatctccgc cttcatcctg cgcaacgcca cctggttcgt ggtccagcta accatgagcc ccgaggtcca ccagagcaac gtgggctggt gcaggttgggt gacagccgccc tacaactact tccatgtgac caacttctc tggatgttcg gcgagggtg ctacctgcac acagccatcg tgctcaccta ctccactgac cggctgcgca aatggatgtt catctgcatt ggctgggggtg tgcccttccc catcattgtg gcctgggcca ttgggaagct gtactacgac aatgagaagt gctgggttgg caaaaggcct ggggtgtaca ccgactacat ctaccagggc cccatgatcc tggctcctgct gatcaatttc atcttctctt tcaacatcgt ccgcatcctc atgaccaagc tccgggcac caccacgtct gagaccattc agtacaggaa ggctgtgaaa gccactctgg tgcgtctgcc cctcctgggc atcacataa tgctgttctt cgtcaatccc gggagagatg aggtctcccg ggtcgtcttc atctactca actccttctt ggaatccttc cagggcttct ttgtgtctgt ttctactgt ttcctcaata gtgaggtccg tctgcccac cggaaagaggt ggcaccggtg gcaggacaag cactcgatcc gtgcccaggt ggcccgtgccc atgtccatcc ccacctcccc aaccctgtgc agctttcaca gcatcaagca gtccacagca gtctga </p>	Homo sapiens
379	9834	Corticotropin releasing factor Receptor 1	NM_004382	<p> agccgagcga gcccgagat gggaggcgac ccgagctcc gtctcgtcaa ggccttctc A cttctggggc tgaaccccg tctgcctcc ctccaggacc agcactcga gagcctgtcc ctggccagca acatctcaga caatggctac cgggagtgc ttggccaatgg cagctgggccc gcccgcgta attactcga gtgccaggag atcctcaatg aggagaaaaa aagcaagggtg cactaccatg tcgcagtcac catcaactac ctgggccact gtatctccct ggtggccctc ctggtggcct ttgtcctctt tctgcggctc aggagcatcc ggtgcctgcg aaacatcatc cactggaacc tcatctccgc cttcatcctg cgcaacgcca cctggttcgt ggtccagcta accatgagcc ccgaggtcca ccagagcaac gtgggctggt gcaggttgggt gacagccgccc tacaactact tccatgtgac caacttctc tggatgttcg gcgagggtg ctacctgcac acagccatcg tgctcaccta ctccactgac cggctgcgca aatggatgtt catctgcatt ggctgggggtg tgcccttccc catcattgtg gcctgggcca ttgggaagct gtactacgac aatgagaagt gctgggttgg caaaaggcct ggggtgtaca ccgactacat ctaccagggc cccatgatcc tggctcctgct gatcaatttc atcttctctt tcaacatcgt ccgcatcctc atgaccaagc tccgggcac caccacgtct gagaccattc agtacaggaa ggctgtgaaa gccactctgg tgcgtctgcc cctcctgggc atcacataa tgctgttctt cgtcaatccc gggagagatg aggtctcccg ggtcgtcttc atctactca actccttctt ggaatccttc cagggcttct ttgtgtctgt ttctactgt ttcctcaata gtgaggtccg tctgcccac cggaaagaggt ggcaccggtg gcaggacaag cactcgatcc gtgcccaggt ggcccgtgccc atgtccatcc ccacctcccc aaccctgtgc agctttcaca gcatcaagca gtccacagca gtctga </p>	Homo sapiens

380	9834	Corticotropin releasing factor Receptor 1	NP_004373.1	MGHPQLRLV KALLLLGLNP VSASLQDQHC ESLSLASNIS DNGYRECLAN GSWAARVNYS P	Homo sapiens
				EQEILNEEK KSKVHYHVAV IINYLGHICIS IVALLVAFVL FLRLRSIRCL RNIIHNLLIS	
				AFILRNATWF VVQLTMSPEV HQSNVGCRL VTAAYNYFHV TNFFWMEGEG CYLHTAIVLT	
				YSTDLRLKWM FICIGWGVF PIIVAWAIGK LYDNEKCFW GKRPGVYTDY IYQGPMLIVL	
				LINFIFLENI VRILMTKLRA STTSETIQYR KAVKATLVLL PLLGITMYLF FVNPGEDEV	
				RVFIYENSF LESFQGFVS VFYCFLNSEV RSAIRKRWRH WQDKHSIRAR VARAMSIPTS	
				PTRVSFHSIK QSTAV	
381	10457	Frizzled-2	NM_001466	cgagtaaagt ttgcaaaag gcgcgggagg cgagcagcgc agcgaggagg cgcgggggaa A	Homo sapiens
				gaagcgaggt ctccgggtg gggcgggggg cgaggggggc gccaaggagc cggtggggg	
				gcggcgcca gcatcggcc ccgacggcc ctgccccgc tgctgctgcc gctgctgctg	
				ctgccccgcg ccggcgccg ccagttccac ggggagaagg gcatctccat ccgggaccac	
				ggcttctgcc agcccatctc catccgctg tgcacggaca tgcctacaa ccagaccatc	
				atgcccacc ttctgggcca cagaaaccag gaggacgcag gcctagaggt gcaccagttc	
				tatccgctgg tgaaggtgca gtgctgccc gaactgcgt tcttctgtg ctccatgtac	
				gcaccgtgt gcaccgtgt ggaacaggcc atccgcctg gccgtctat ctgtgagcg	
				gcgcccagg gctgcgaag cctcatgaac agttcggt ttcagtggc cgagcgctg	
				cgctgcagc acttccgcg ccacgggcc gacagatct gcgtcgcca gaaccactcc	
				gaggacggag ctccgcgct actcaccac gcgcgcgcg cgggactgca gccgggtgcc	
				gggggaccc cgggtggccc gggcgcgcc ggcgtcccc cgcgtacgc cacgctggag	
				cacctctcc actgcgcg cgtctcaag gtgccactc atctcagcta caagtctctg	
				ggcagcggtg attgtgtgc gccctgcgaa cctgcgcgcg ccgatgggtc catgttcttc	
				tcacagagg agacgcgtt cgcgcgcctc tggatccctc cgtgtcgtg cgtgtcgtgc	
				gcttccact tcttactgt caccacgtac ttggtagaca tgcagcgtt ccgtaccca	
				gagcgcccta tcattttct gtccgggtgc tacaccatgg tgcgggtggc ctacatcgcg	
				ggcttcgtgc tccaggagcg cgtgtgtgc aacgagcgt tctccgagga cggttaccgc	
				acggtgtgtc agggcaccaa gaaggaggcg tgcaccatcc tcttcatgat gctctacttc	
				ttcagcatgg ccagctccat ctggtgggtc gccaactctc agtacttcca cctggcagcc	
				ggcatgaagt ggggccacga gaccatcacc atcctggcca tgggccagat cgacggcgac	
				tgggcccgtc cggccgtcaa gaccatcacc atcctggcca tgggccagat cgacggcgac	
				ctgctgagcg gcgtgtgctt cgtaggcctc aacagcctgg acccgctgc gggcttcgtg	
				ctagcgccgc tcttctgta cctgttcat ggcacgtctc tcttctggc cggcttcgtg	
				tcgctctcc gcattccac catcatgaag cagcagcgca ccaagaccga aaagctggag	
				cggctcatgg tgcgcacatgg cgtcttctcc gtgctctaca cagtgcctgc caccatcgtc	
				atcgcttgct acttctacga gcaggcctc cgcgagcact gggagcgctc gtgggtgagc	
				cagcactgca agagcctggc catccctgc ccggcgact acacgcgcg catgtcgcgc	
				gacttcacgg tctacatgat caaatacctc atgacgcctca tctgtggcat cacgtcgggc	
				ttctggatct ggtcgggcaa gacgtgcac tctgtgagga agttctacac tgcctcacc	
				aacagccgac acggtgagac caccgtgtga gggacgccc caggccggaa ccgcgcggcg	
				ctttctctcg cccgggtgg ggccttaca gactccgat tttattttt taaataaaaa	
				acgatgaaa ccatttcaat ttttaggttc tttttaaaag agaactctct gcccaacacc	
				ccc	

382	10457	Frizzled-2	NP_001457.1	MRPRSALPRL LLPLLLLPAA GPAQFHGEKG ISIPDHGFCQ PISIPLCIDI AYNQTIMPNL P LGHTNQEDAG LEVHQFYPLV KVQCSPELRF FLCSMYAPVC TVLEQAIPPC RSICERARQG CEALMNKFGF QWPERLRCEH FPRHGAEOIC VQONHSEDGA PALLTTAPPP GLQPGAGGTP GGPGGGGAPP RYATLEHPFH CPRVLKVPSY LSKYKFLGERD CAAPCEPARP DGSMMFFSQEE TRFARLWILT WSVLCCASTF FTVTTLVDM QREYRPERPI IFLSGCYTMV SVAYIAGFVL QERVVCNERF SEDGYRTVVQ GTKKEGCTIL FMMLYFFSMA SSIWWVILSL TWFLAAGMKW GHEAIEANSQ YFHLLAAWAV AVKTITILAM QIDGDLISG VCFVGLNSLD PIRGFVLIAPL FVYLFIGTSF LLAGFVSLFR IRTIMKHDTG KTEKLERLMV RIGVFSVLYT VPATIVIACY FYEQAUREHW ERSWVSQHCK SLAIPCPAHY TPRMSPDFTV YMIKYLMTLI VGITSGFWIW SGKTLHSWRK FYTRLNLSRH GETTV	Homo sapiens
383	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	NM_022571	atggccttac tgggcagcca gcactccggc gccccctccg cggcccgccc acctggcggg A acttcctcag cggccacggc ggccgtgctc tccttcagca ccgtggcgac cgcggcgctg gggaacctga ggcacgcaag cggaggcggc acagctgccg ctcccggctg cggcggcctt ggcgggtccg ggacagcgcg ggagcggtga cggcggtga ggccggcctt aggcccgag gcggcgccgc tctgtcgca cggagctgca gtggcgccc aggcgctcgt cctcctgctc atcttcctgc tgtctagcct tggcaactgc gcggtgatgg gggtgatgtt gaagcacgg cagctccgca ccgtcaccaa cgccttcac ctgtcgtgt cctatcgga tctgctcacg gcgtgctct gcctgcccgc cgccttcctg gacctcttca ctccgcccgc ggggtccggc ctcgcgctgc ccgcggggccc ctggcgggc ttctgcggc caagccgctt cttcagctcg tgcttcggca tctgtacgc tcagcgtggc gctcatctcg ttggaccctt actgcgctat cgtcgccgc cgcgggagaa gatcgccgc cgcgcgcgc tgcagctgct ggcggcgccc tggtgacgg ccctgggctt ctcttgccc tgggagctgc tcggggcgcc ccgggaactc gcggcgggcc agagcttcca cggctgcctc taccggacct ccccggaacc cgcgcagctg ggcgccccct tcagcgtggg gctgggtgtg gctgctacc tctgtccctt cctgctcatc tgcttctgcc actaccacat ctgcaagacg gtgcgctgt cggacgtgag cgtgcggccc gtgaacacct acgcgcgct gctgcgttct tcagcgaggt gcgcacggcc accaccgtcc tcacatga	Homo sapiens
384	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	NP_072093.1	MALLGSOHSG APSAAGPPGG TSSAATAAVL SFSTVATAAL GNLSDASGGG TAAAPGGGGL P GGGAAREAG AAVRRPLGPE AAPLLSHGAA VAAQALVLLL IFLSSSLGNC AVMGVIVKHR QLRTVTNAFI LSLSLDLT ALLCLPAFL DLFTPPGSA PALPAGPWRG FCRPSRFFSS CFGIVYAQRG AHLVGPLLRY RRPREKIGR RRALQLLAGA WLTALGFSLP WELLGAPREL AAGQSFHGCL YRTSPDPAQL GGPFSVGLV ACYLLPFLLI CFCHYHICKT VRLSDVRVRP VNTYARVLRS SARCARPPPS SS	Homo sapiens
385	14198	Interleukin-8 Receptor B	nm_001557	cattcagaga cagaaggtgg atagacaaat ctccaccttc agactggtag gctcctccag A aagccatcag acaggaagat gtgaaaatcc ccagcactca tcccagaatc actaagtggc acctgtcctg ggccaaagt ccaggacaga cctcattgtt cctctgtggg aatacctccc caggagggca tcttgattt ccccttgca acccagtgca gaagtctcat cgtcaaggtt gtttcatctt ttttttctg tctaacagct ctgactacca cccaaccttg aggcacagtg aagacatcgg tggccactcc aataacagca ggtcacagct gctcttctgg aggtgtccta caggtgaaaa gccacgcgac ccagtcagga tttaagtta cctcaaaaat ggaagatttt	Homo sapiens

aacatggaga gtgacagctt tgaagatttc tgaaagggtg aagatcttag taattacagt
tacagtcta cctgcccc ttttacta gatggaacc catgtgaacc agaaccctg
gaaatcaaca agtatttgt ggtcattatc tatgcccctg tattcctgct gagcctgctg
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atataaccaa ggctagaacc acctgcctat atttttgtt aaatgatttc attcaatatc
tttttttaa taaaccattt ttacttgggt gttat

386	14198	Interleukin-8 Receptor B	NP_001548.1	MEDFNMSDS	FEDFWKGEDL	SNYSYSTLP	PFLDAAPE	PESLEINKYF	VVIYALVFL	P	Homo sapiens
				LSLLGNSLVM	LVILYSRVGR	SVTDVYLLNL	ALADLLFALT	LPIWAASKVN	GWIFGTFCLK		
				VVSLKEVNF	YSGILLIACI	SVDRYLAIVH	ATRTLTKRY	LVKFICLSIW	GLSLLALPVP		
				LLFRRTVYSS	NVSPACYEDM	GNNTANWRML	LRILPQSEFG	IVPLLIIMLFC	YGFTLRLTLFK		
				AHMGOKHRAM	RVIFAVVLIF	LLCWLPYNLV	LLADTLMRTQ	VIQETCERN	HIDRALDATE		
				ILGILHSCIN	PLIYAFIQOK	FRHGLLKILA	IHGLISKDSL	PKDSRPSFVG	SSSGHTSTTL		
				cagaattcca	ggacaaaagag	atcttcaaaa	atcaaaaatg	aggttcacat	ttacaagccg	A	
				gtgcttgcca	ctgtttcttc	ttctaaatca	cccaacccca	atcttctctg	ccttttcaaa		
				tcaaacctat	ccaacaatag	agcccaagcc	atttctttac	gtcgtaggac	gaaagaagat		
				gatggatgca	cagtacaaat	gctatgaccg	aatgcagcag	ttaccgcgat	accaaggaga		
				aggtccatat	tgcaatcgca	cctgggatgg	atggctgtgc	tgggatgaca	caccggctgg		
				agtaattgtcc	tatcagttct	gccagatta	tttccggat	tttgatccat	cagaaaaaggt		
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				gattttcgtg	tttttcaggga	gccttggctg	ccaaaaggta	accctgcaca	agaacatgtt		
				tcttacttac	attctgaatt	ctatgattat	catcatccac	ctggttgaag	tagtacccaa		
				tggagagctc	gtgcgaaggg	accgggtgag	ctgcaagatt	ttgcattttt	tcacccagta		
				catgatggcc	tgcaactatt	tctggatgct	ctgtgaaggg	atctatctct	atacactcat		
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				agagcaagag	tcattctgctt	gaatgtgaag	gcaaacacag	catcgtgatc	actgagccat		
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				tatcatttgt	gaagaattat	tcagtgaatt	tgtccattgt	aaatctgaag	aaagttattc		
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				ctctgcaaga	caaagcggct	ttctaataga	gagatagta	aatatgtgaa	gaaaagacc		
				tgcatctggc	aggaagatgt	atgctttgaa	tgcaaaaaga	atttagatgc	aatttgctga		
387	14641	Calcitonin Receptor	NM_001742								

388	14641	Calcitonin Receptor	NP_001733.1	<p> aaacattaca tgctcagctt ggttttggac aagcctgtcc attgggcagg acctagctgt tgtaagaat tggctcta atgtgaatgta ttttgggtgc tgatgttat aaactgagag gtcacaaga atctatcact aaaaattttt aaaaaatgc caaaaatata attcttagtg gaagacaata ctccctttaa agagagtttg ccactccctt aaactccagg atttataaag caaatctact caaggtttat aaagagatt acctctgtcc cttgggtgct atctagcagt aaaagataaa tttgtgaat attgtgaat aaagactcc acataagtc attaactgct ttccacccag cttcaagct taaaaagagc tcaggctttt ccaggaagat ccaggagggc taattagaaa tcaactgtg gttgacgct tgtttctgt tattaccaaa caggaggagg aaaaattaac tgctccaat ttaaccataa atcaattcat gtttaacgt tctcattaaa atccagtatt atattatcat atctctctt acttccagt ataagattt tgaatactct gaataaacca gtatcgttac tggcacctga aattaatttg tgaatttga acagtaatac gagttaccat tatttaattt gtatgctaaa tgaggaggtta cattgaaacc ctccaaatct ccagtctcat ctatgtcata ttttgccact gccttcaga agtgatttag ttgtggaaag ataataaatt gattgttat ggtacatat ttgacacac cagagaaaa taattatatt tctacagaga aaatgaattt gggatactaa agtagtttaa gtctccttta ctgaatgtaa gggggggac gaaaagaagg tatttttcca atcacagtgt tatgtagtat tgtctattt ttgtttacaa acatggaaaa cagagtattt ctggcagctg tggtaacaa gtgataatat attgctaaaa tattttagat gttattatgc taatatagta ggggttgag aaaaacaaat agcttattat agaattgcac atagtctgc ccaaatatg tgaatgctt atgcttgtgt atatgtataa attaatacac agtacgttaa aagcaaaaag atgtatatatt gcatatttt ctaagaaat atattatca tcttttcatt c </p>	Homo sapiens
389	16041	C-C Chemokine Receptor 6	NM_004367	<p> MRFTTSRCL ALFLLNHPT PILPAFENQT YPTIEKPFL YVGRKKKMD AQKYCYDRMQ P QLPAYQEGP YCNRTWDGWL CWDDTPAGVL SYQFCPDYFP DFDPSEKVK XCDEKGVWFK HPENNRWSN YTMCAFTPE KLNNAVLYY LAIVGHSLSI FTLVISLGF VFRSLGCQR VTLHKMFLT YILNSMIII HLVEVPNGE LVRRDPVSCK ILHFFHQYMM ACNYFWMLE GIYHLTLIV AVTEKQRLR WYLLGWGFP LVPTTIHAT RAVYFNDNCW LSVETHLLYI IHGPVMAALV VNFELNLIV RVLVTMRET HEAESHMYLK AVKATMILVP LLGIQFVFP WRPSNKMGLK IYDYVMHSLI HFQGFVATI YFCNNEVQT TVKRQWAQFK IQWNQRWGR PSNRSAPAAA AAEEAGDPI YICHQELRNE PANNQGEESA EIIPLNIEQ ESSA caaacgttcc caaatcttcc cagtcggctt gcagagactc ctgtctcca ggagataacc A agaagctgca tcttattgac agatggtcat cacattggtg agctggagtc atcagattgt ggggcccgga gtgaggtga agggagtga tcagagcact gcctgagagt cacctctact ttcctgtac cgtgcctgt gactgaagg ggtgaacca tacactcctt ttctacaac cagcttgcat ttttctgcc caaatgagc gggaaatcaa tgaatttcag cgtgttttc gactcagtg aagattattt tgtgtcagtc aatactcat attactagt tgattctgag atgttactgt gctccttga ggagtcagg cagttctcca ggtatttgt accgattgcc tactccttga tctgtgtctt tggcctcctg ggaaatattc tgggtgtgat caccttgc ttttataaga agccaggtc tatgacagac gtctatctc tgaacatggc cattgcagac atcctctttg ttctactct cccattctgg gcagtgaagc atgccactgg tgcgtgggtt ttcagcaatg ccagtgcaa gttgctaaa ggcattctatg ccatcaact taactgcggg atgctgtctc tgacttgcat tagcatggac cgggtacatcg ccattgtaca ggcgactaag </p>	Homo sapiens

tcattccggc tccgatccag aacactaccg cgcacgaaaa tcactctgctt tgtgtgtggt
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tgttatttga aactttatat tgttcttcta agctttaact atatctctct ttaaaatgca
aaataatgtc ttaagattca agtctgtgat ttttaagca tggctttggc ttgcaaaat

Homo
sapiens

390 16041 C-C Chemokine Receptor 6 NP_004358.1
 aaaaaatgtg tttgtacat gaagtaggaa tcgtatttca gcttcaaggt tcagattgag
 ggcccactg tttggagagg atggtattca ggttttctca tgtccttcaa atctgttagc
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 ttcttgctgt ctggggcacc aaacaggtg ccattggttaac ctgacactct caggagacat
 taagatagaa ggggctgttc ttcagtgttt cccattgatt ctcctccatat ctttttgc
 tcaggctctg gccgtctctt cctgagcctt aactgtgt
 LLGNILVVIT FAFYKKARSM TDVLLNMAI ADILFVLTP FVAVSHATGA WVFNSATCKL
 LKGIYAINFN CGMLLTCTIS MDYIAIVQA TKSFRLRSRT LPRTKIICLV VMGLSVIIS
 STFVFNQKYN TQSDVCEPK YQTVSEPIRW KLMLGLLELL FGFPIPLMEF IFCYTFIVKT
 LVQAQNSKRH KAIRVILAV LVFLACQIPH NMVLLVTAAN LGMNRSQCS EKLIGYTKTV
 TEVLAFLHCC LNPVLYAFIG QKFRNYFLKI LKDLWCVRRK YKSSGFSCAG RYSENISRQT
 SETADNDNAS SFTM

Homo
sapiens

391 16599 Smoothened NM_005631
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[illegible]

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Homo
sapiens396 17345 G Protein-
Coupled
Receptor D6 NP_001287.2

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Homo
sapiens397 17535 Gaba (b)
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399	17666	Glucagon- Like Peptide 1 Receptor	NM_002062	<p> gaattccggg ttgtgcatc cactctggaa cgcctcgtgt gtggcctgtc ggaatgacat A cgccctcatc agtctccga cgcgttccc agtggtcagc gatggcccag tcctgaactc cccgccatgg ccggcgcccc ccggcccgctg cgccttgccg tgctgctgt cgggatggg ggcaggccg gcccccgccc ccagggtgcc actgtgtccc tctgggagac ggtgcagaaa tggcgagaat accgacgcca gtgccagcg tccctgactg aggatccacc tcctgccaca gactgttct gcaacgggac ctctgatga tacgctcgtt gccagatgg ggagccaggc tcgttcgtga atgtcagctg cccttggtac ctgcccctgg ccagcagtg gccgcaggcc cagtggtacc ggttcctgac agctgaggg cctgggctgc agaaggacaa ctccagcctg ccctggaggg acttgcgga gtgcgaggag tccaaaggag gggagagaag ctccccggag gagcagctcc tgttccctca catcatctac acggtgggct acgactctc ctctctgtct ctggttatcg cctctgcgat cctcctcgcc ttcagacacc tgcactgcac caggaactac atccactga acctgtttgc atcctcatc ctgcgagcat tgcctgtct catcaaggac gcagccctga agtggtatga tagcacagcc gccacagc accagtggga tgggctcctc tcctacctgg actctctgag ctgcccgcctg gtgtttctgc tcatgcagta ctgtgtggcg </p>	Homo sapiens

400	17666	Glucagon-Like Peptide 1 Receptor	NP_002053.1	gtggtgagggc gtgtacctgt acacactgtt ggccttctcg gtcttatctg agcaatggat cttcaggctc tagctgagga taggctgggg tgttccccctg ctgtttgttg tccccgggg cattgtcaag tacctctatg aggaagaggg ctgtggacc aggaactcca acatgaacta ctgggtcatt atccggctgc ccattctctt tgccattggg gtgaacttcc tcatctttgt tcgggtcatt cgcactggg tatccaaact gaaggccaat ctcatgtgca agacagacat caaatgcaga ctgccaagt acacgtgac atccatcccc ctgctgggga ctcatgaggt catctttgcc ttgtgtatgg acgacacgc ccgggggacc ctgcgcttca tcaagctgtt tacagagctc tcctcacct cttccaggg gctgatgggtg gcatattat actgctttgt caacaatgag gtccagctgg aattcgga gagctgggag cgctggcggc ttgagcactt gcacatccag agggacagca gcatgaagcc cctcaagtgt cccaccagca gcctgagcag tggagccacg gcgggcagca gcatgtacac agccacttgc caggcctcct gcagctgaga ctccagcgcc tgcctcctctt ggggtccttg ctgcagcgg gtggccaatc cagcctccc cacaaatacc	SLWETVQKWR EYRQCQRSL TEDPPPATDL P WASSVPQGHV YRFCTAEGW LQKDNSSLPW GYALSFSALV IASAILLGR HLHCTRNYIH QHWMDGLLSY LDSLSCRLV LLMQYCVAAH SIGWGVPLLF VVPWGVKYL YEDEGCWTRN VSKLKNALM CKTDIKRLA KSTLTLLPLL LYCFVNNEVQ LEFRKSWERW SSMYTATCQA SCS	Homo sapiens
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404	19072	G Protein- Coupled Receptor	ENSP00000016 4265	SDERRLPESA VGWLVCGGIS ATYSVVQLRR QRPDFEWNEG NAKKQAVHTV MGIWMVSFIL	LLANAWGILS LCKVFVSTFY SALPAVGWHD	VGAKQKKWKP TLTLATCFSV TSERFYTHGC	LEFLLCITLAA TSLSYHRMMW RFIVAEIGLG	THMLNVAVPI VCWPVNYRLS FGVCFLLLVG	Homo sapiens		
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405	19501	Ls19072	G Protein- Coupled Receptor KIAA0758	AB018301	GSVAMGVICT AIALFQTLAV QVGROADRRRA FTVPTIVVED AQGKRRSSID GSEPAKTSIQ TTGLVTTIVF IYDCLMGFPV LVVSFSSLRA DASAPWALC VLMCSVAQAL LLPVFLWACD RYRADLKAVR EKMALMAND EESDDG	gtgcaagaag aaaaatagatg ttatgccat ccaaatattg gcaaatgaag aatgaaggt A gatgtgcgac aacaatcctg tatctttgaa ctgctcagat cagggtaatg ttaattggag caaagttaga tggagcagag aggaaaaat aatatctcca ggaacccctg agacagacat agattctagc tgcagcagat acaccctcaa ggtctatgga acccagtgcc caagcgggtc gtctggaaca acagtcacat acacttgtga gttcatcagt gcctatggag ccagaggcag tgcaaacata aaagtacat tcatctctgt ggccaatcta acaataccc cggacccaat ttctgtttct gagggacaaa acttttctat aaaaatgcac agtgatgtga gtaactatga tgaggtttat tggaaacact ctgctggaat taaaatatac caaagatttt ataccacgag gaggtatctt gatggagcag aatcagtact gacagtcaag acctcgacca gggagtggaa tggaacctat cactgcatat ttagatataa gaattcatac agtattgcaa ccaaagacgt cattgttcac cgcgtgcctc taaagctgaa catcatgggt gatcctttgg aagctactgt ttcatgcagt ggttcccat acatcaagt ctgcatagag gagtatggag actacaaagt tactttccat atgggttctt catccttcc tgcgcaaaa gaagttaaca aaaaacaagt gtgtacaaa cacaatttca atgcaagctc agtttctctg tgtcaaaaa ctgttgatgt gtgtgtcac tttaaccaat ctgctaataa ttcagtttgg agccatcta tgaagctgaa tctgttctt ggggaaaaa tcacatgcca ggateccgta ataggtgtcg gagagccggg gaaagtcac cagaagctat gccgttctc aacgttccc agcagccctg agagtcccat tggcgggacc atcaattaca aatgtgtagg ctccagtggt gaggagaaga gaaatgactg catctctgcc ccaataaaca gtctgtcca gatggctaa gctttgatca agagccctc tcaggatgag atgctcccta catacctgaa ggatcttctt attagcatag acaaagcggg acatgaaatc agctcttctc ctgggagctt ctggagccatt attaacatcc ttgatctgt ctcaacagtt ccaaccacag taaattcaga aatgatgacg cagtgctct ctacggttaa tgtcatcctt ggcaagcccg tcttgaacac ctggaaggtt ttacaacagc aatggacca tcagagttca cagctactac attcagtga aagatttcc caagcattac agtcaggaga tagccctcct ttgtccttct ccaaaactaa tgtgcagatg agcagcacgg taatcaagtc cagccacca gaaactatc acagaggtt tgttttccca tactttgacc tctggggcaa tgtgttcatt gacaagact atctagaaa cttgcagtcg gattcgtcta ttgtcacccat ggctttccca actctccaag ccactcctgc tcaggatatac caggaataa actttgcaga gagcttagtg atgacaacca ctgtcagcca caatacagct atgccattca ggatttcaat gacttttaag aacaatagcc cttcaggcgg cgaaacgaag tgtgtcttct gaaacttcag gcttgccaac aacacagggg ggtgggacag cagtggtgtc tatgttgag aaggtgatgg ggacaatgtc acctgtatct gtgaccact acatccttc tccatctca tgtccctga ctcccatgat cctagtctc tcctgggaat actcctggat attatttctt atgttgggtt gggcttttcc atcttgagct tggcagcctg tctagtgtg gaagctgtgg tgtggaaatc ggtgaccaag aatcgactt cttatatgcg ccacacctgc atagtgaata tcgctgcctc cctctgggtc gccaacact ggttcattgt ggtcgtgcc atccaggaca atcgtacat actctgcaag acagcctgtg tggctgccac ctcttctc cacttctt acctcagcgt cttcttcttg atgtgacac tgggcctcat gctgttctat cgctgggtt tcatctgca	Homo sapiens
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406	19501	G Protein- Coupled Receptor KIAA0758	BAA34478.1	<p> tgaacaagc aggtccactc agaaagccat tgcccttctgt cttggctatg gctgcccact tgccatctcg gtcatacgc tgggagccac ccagcccg gaaagtctata cgaggaagaa tgtctgttgg ctcaactggg aggaacccaa ggccttgcgt gctttcgcca tcccagcact gatcattgtg gtgtgaaca taaccatcac tattgtgtc atcaccaga tcctgagggc ttccattgga gacaagccat gaaagcagga gaagagcagc ctgtttcaga tcagcaagag catggggtc ctacaccac tcttggcct ctttggcct tttggtctca ccactgtgtt ccagggacc aacctgtgtg tccatcatcat atttggcctc tccaatgtct ccagggatt attcatttta ctctttggat gcctctggga tctgaagta caggaagctt tgctgaataa gtttctattg tcgagatggt cttcacagca ctcaaatc aacatccctgg gttcatccac acctgtgtt tctatgagtt ctccaatc accagagttt acaaatgtt tggtaaaaac agaacgtat aatgtttcca cccagaagc aaccagctca tccctggaac actcatccag tgcttcttcg ttgctcaact aagaacagga taatccaacc tacgtgacct cccggggaca gtggctgtgc ttttaaaag agatgcttgc aaagcaatgg ggaacgtgtt ctcggggcag gttccggga gcagatgcca aaagacttt ttcatagaga agagcttct tttgtaaaag acagaataaa aataattgtt atgttctgt ttttccctc cccctcccc ttgtgtgata ccacatgtgt atagtattta agtgaactc aagccctcaa ggcccaactt ctctgtctat attgtaatat agaatttga agagacattt tcacttttta cacattgggc acaagataa gctttgatta agtagtaag taaaaggcta cctaggaat acttcagtga attctaagaa ggaaggagag aaggaaagaa ggaagagag gagggaaaca gggagaaagg gaaaaagaa aaaaagagaa agatgaaat aggaacaaat aaagacaac aacattaaag gccatatgtt aagatttcca tgttaatgat ctaataaat cactcagtc aacattgaga atttttttt taatgctca aaaaaggaa ctgaagcaa gtcatggga atgaatactt tgggcagtat ctctcgtatg tcttcttagc taagaggagg aaaaaaggc tgaataataa gggaggaat tcttcatca gaagacttc aagtggaata caataattat agaaatgaa tggagagaaa tatgatctc ctgagactaa ctttgtatgt taaggtttga actaagtga tgtatctgca gaggaagtat tataaagata tgtcattaga tccaagtgt gattaaattt ttatagtta tcagaaaagc cttatatatt agttgttcc acattttgaa agcaaaaaat atatatgga tataccctc aattgccaat ttgatattg tgcactgaag acagaccctg tcataattt aatggcttca agcaggtact tctctgtgca ttatagaata gattttaata atcttatagc attgtatatt attattgtg ttgtcactgt tattattatt gtggatactg gcccttgggtg tgttgcatag ctccctatgt attctctgtt tccatcttta agtccccaga ccaatataca ttaagagttt tgcattgtct aaattgtgtt tattccaacc acgtggaaa ctcctggaaa gaaattttac attcgggtgt tctgtgctcc taatgacact tgacctgtt gaacaaatgg cagagcctt cccaaggatt tgattgtttg tgaattatct gcatgtgtgc ttttttttg tgtgtattc attaaaaaat ataaattt atg </p>	<p> CCSQGNVNS KVEWQEGKI NIPGTPETDI P FISAYGARG ANIKVTFISV ANLTITPDPI KIYQRFYTR RYLDGAESVL TVKTSTREWN INVDPLEATV SCGSHHIK CIEEDGDYKV VSWCKTVDV CCHFTNAANN SWSPSMKLN NVPSSPESPI GGTITYKCVG SQWEKRNDC </p>	Homo sapiens
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407	21632	G Protein- Coupled Receptor Ls21632	AB040964	Homo sapiens
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408 21632 G Protein- Coupled Receptor Ls21632 BAA96055.1 Homo sapiens

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409 22315 G Protein- Coupled Receptor GPR92/GPR93 NM_020400 Homo sapiens

410	22315	G Protein- Coupled Receptor GPR92/GPR93	NP_065133.1	gtgatgggtgc tgcgtgccgg cgccaactgc gtgctggacc cgctgggtgta ctacttttagc gccgagggct tccgcaacac cctgcggcgc ctggggcactc cgcaccgggc caggaccctgc gccaccaacg ggacgaggcg ggcgctcgcg caatcgaaa ggtccgccgt caccaccgac gccaccaggc cggatgccgc cagtcaggcg ctgctccgac cctccgactc ccactctctg tcttccttca cacagtgtcc ccaggattcc gccctctga MLANSSTNS FTLSPDYP RP YRLHLVVS LVLAAGFLN ALALWFLRA LRHVVSVY P MCNLAASDLL SVLCLPVLRL YRALHWFPF DLICQTGAI FQMMYGSCL FLMLINVDY AAIVHPLRL HLRRPRVARL LCLGWALIL VFAVPAARVH RPSRCRYRDL EVRLCFESFS DELWKGRLLP LVLLAEALGF LLPLAAVVS SGRVFWTLAR PDATQSQRRL KTVRLLLANL VIFLLCFVPY NSTLAVYGLL RSKLVASVP ARDRVGVLM VMVLAGANC VLDPLVYFVS AEGFRNTLRG LGTPHRARTS ATNGTRAALA QERSAVTID ATRPDAAASQG LLRPSDSHSL SSFTQCPQDS AL	Homo sapiens
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 412 22925 Latrophilin- NP_056051.1 MWPSQLLIFM MLLAPIIHAF SRAPIPMV RRELSCESYP IELRCPGTDV IMIESANYGR P Homo
 3 TDDKICDSDP AQMENIRCYL PDAYKIMSQR CNNRTOCAVV AGPDVFPDPC PGTYKYLEVQ sapiens

413	25359	G Protein- Coupled Receptor GPR34	NM_005300	<p>YECVPYKVEQ KVFLLCPGLLK GYQSEHLFE SDHQSGAWCK DPLQASDKIY YMPWTPYRTD</p> <p>TLTEYSSKDD FIAGRPTTY KLPHRVDGTG FVYDGAFF NKERTRNIVK FDLRTRIKSG</p> <p>EAIIANANYH DTSPYRWGK SDIDLAVDEN GLWIVATEQ NGKIVISQL NPYTLRIEET</p> <p>WDTAYDKRSA SNAEMICGIL YVVKSVYEDD DNEATGNKID YIYNTDQSKD SLVDVPPFNS</p> <p>YQYIAADVYN PRDNLIVWN NYHVVKYSLD PGRDSSGQ AHHQVSYIS PPIHLDELE</p> <p>RPSVKDISTT GPLMGSTTT STTLRTTLLS PGRSTTSVS GRNRSTSTP SPAVEVLDDM</p> <p>TTHLPASSQ IPALIESCEA VEAREINWFK TRQGQIAKQP CPAGTIGVST YLCLAPDGIW</p> <p>DPOGPDLSNC SSPWNHITQ KLSGETAAN IARELAETR NHLNAGDITY SVRAMDQLVG</p> <p>LLDVQLRNLT PGGKDSAAKS LNKLOKRS CRAYQVAME TVNNLLQPOA LNAWRDLTTS</p> <p>DQLRAATMLL HTVEESAFVL ADNLLKTDIV RENTDNKLE VARLSTEGNL EDLKFFPENMG</p> <p>HGSTIQLSAN TLKQNGRNGE IRVAFVLYNN LGPYLSTENA SMKLGTEALS TNHSHVIVNSP</p> <p>VITRAINKEF SNKVYLADPV VFTVVKHIQS EENFNPCSF WSYSKRRTMTG YWSTQGCRL</p> <p>TTNKTHITCS CNHLTNFAVL MAHVEVKHSD AVHDLDDVI TWVGILLSLV CLICIFTFC</p> <p>FFRGLQSDRN TIHKNLCISL FVAELLEFLIG INRTDQPIAC AVFAALLHEF FLAAFTWMFL</p> <p>EGVQLYIMLV EVFESEHSRR KYFYLVGCGM PALIVAVSAA VDYSYGTDK VCWLRLDTYF</p> <p>IWSFISGPTL IIMLVIFLG IALYKMFHHT AILKPESGCL DNINYEDNRP FIKSWVIGAI</p> <p>ALLCLGLTW AGLMYINES TVIMAYLEFI FNSLQGMFIF IFHCVLQKKV RKEYGKCLRT</p> <p>HCCSGKSTES SIGSGKTS GS RTPGRYSTGS QSRIRRMWD TVRKQSESSF ITGDIINSSAS</p> <p>LNREPYRETS MGVLNLIAYQ IGASEQOQY KCHGYSYTEM</p> <p>atgagaagtc ataccataac aatgacgaca acttcagtcg gacagtggcc ttactctcc A</p> <p>cacagaatgc ctttataac caatcatagc gaccaacgcg cacaaaaactt ctccagcaaca</p> <p>ccaaatgtta ctactctgc caatgatgaa aaattgctcat ctactgtgtt aaccacatcc</p> <p>tactctgtta tttctcgtt gggactggtt gggaacataa tcgcccctca tgtatttctg</p> <p>ggtattcacc gtaaaagaaa ttccattcaa atttatctac ttaacgtagc cattgcagac</p> <p>ctcctactca tcttctgcct cctttccga ataattgtatc atattaacca aacaaagtgg</p> <p>acactagggtg tgattctgtg caagggtgtg ggaacactgt ttatatgaa catgtacatt</p> <p>agcattattt tgcttgatt catcagttg gatcgctata taaaaataa tcggtctata</p> <p>cagcaacgga aggcaataac aaccaacaa agtatttatg attttaaac ttaagaaagg aggcataat</p> <p>cttgctcttg gtggattcct aactatgatt attttaaac ttaagaaagg aggcataat</p> <p>tccacaatgt gtttccatta cagagataag cataacgcaa aaggagaagc catttttaac</p> <p>ttcatctctg tggtaattgtt ctggctaatt ttctactaa taatccttc atataatga</p> <p>attgggaaga atctattgag gatttctaaa aggaggtcaa aatttctaa ttctggtaaa</p> <p>tatgccacta cagctcgtaa ctcctttatt gtacttata tttttactat atgttttgtt</p> <p>ccctatcatg ccttctgatt catctacatt tcttcacagc taaatgtatc atctgtgtac</p> <p>tggaagagaaa ttgttcacaa aaccaatgag atcatgtctg ttctctcatc ttccaatagt</p> <p>tgcttagatc cagtcattga tttcctgag tccagtaaca ttccgcaaat aatgtgcccc</p> <p>cttcttttta gacgatttca aggtgaacca agtaggagtc aaagcacttc agaattttaa</p> <p>ccaggatact ccctgcatga tacatctgtg gcagtgaata tacagtctag ttctaaaagt</p> <p>acttga</p>	Homo sapiens
414	25359	G Protein- Coupled	NP_005291.1	<p>MRSHITMTT TSVSSWPYSS HRMRFITNHS DQPPQNFSA PNVTTCPMDE KLLSTVLTTTS P</p> <p>YSVIFIVGLV GNIIALYVEL GIHRKRNSIQ IYLLNVAIAD LLLIFCLPFR IMYHINQNKW</p>	Homo sapiens

Receptor GPR34	415	30698	G Protein- Coupled Receptor Ls30698	AX068267	<p>TLGVILCKW GTLFYNNMYI SIILLGFISL DRYIKINRSI QQRKAITTKQ SIYVCCIWM</p> <p>LALGGFLTMI ILTLKKGHN STMCIFYRDK HNAKGAEAFN FILVMEFWLI FLIIILSYIK</p> <p>IGKNLLRISK RRSKFNSGK YATTARNSFI VLIIFICFV PYHAFRFIYI SSQINVSICY</p> <p>WKEIVHKTNE IMLVLSSFNS CLDPVMYFLM SSNIRKIMCQ LLFRRFOGEP SRSESTSEFK</p> <p>PGYSLHDTSV AVKIQSSSKS T</p> <p>gtttcagat cggcttctcg caacaggcag tcagttctca ctgggccctt tggactccca A</p> <p>tttcaaaaat gagagaaca gatacagcc actgacagc gacctgtgga ggtgccacgt</p> <p>gatggtgagg catagactga gggagctgag ctctgacctt cctgctgggt gattctccac</p> <p>ctctgggctg ctagatctac ttctgtgatg ccgtgaagat cctcatgtat gaaaatgaag</p> <p>tcccaggcaa ccatgatttg ctgcttagtg ttcttctgtt ccacagaatg tccccactat</p> <p>agatccaaga ttacactaaa aagctatagt gaagtggcca accacatcct cgacacagca</p> <p>gccatttcaa actgggcttt cattcccaac aaaaatgcca gctcggattt gttgcagtca</p> <p>gtgaatttgt ttgccagaca actccacatc cacaataatt ctgagaacat tgtgaatgaa</p> <p>ctcttcattc agacaaaagg gtttcacatc aacctataa cctcagagaa aagcctcaat</p> <p>ttctccatga gcatgaacaa taccacagaa gatatcttag gaatggtaca gattccccagg</p> <p>caagagctaa ggaagctgtg gccaaatgca tcccaagcca ttgcatagc ttccccaaac</p> <p>ttgggggcta tctgagaga agccacttg caaatgtga gtcttccag acaggtaaat</p> <p>ggtctgtgct tctcagtggt ttaccagaa aggttgcaag aaatcatact cacttctgaa</p> <p>aagatcaata aaaccgcaa tgccagagcc cagtgtgttg gctggcactc caagaaaagg</p> <p>agatgggatg agaaagcgtg ccaaatgatg ttggatatca ggaacgaagt gaaatgcgc</p> <p>tgtaactaca ccagtgtggt gatgtctttt tccattctca gtctctccaa atcgtagacc</p> <p>gacaaaagtc tggactacat cactgcattt ggcctcagcg tctcaatcct aagcttgggt</p> <p>ctttgctga tcattgaagc cacagtgtgg tcccgggtgg ttgtgacgga gatatacat</p> <p>atgctcacg tgtgcatcgt gaatatagca gtgtcccttc tgactgcaa tgtgtgggtt</p> <p>atcataggct ctacttttaa cattaaaggcc caggactaca acatgtgtgt tgcagtgaca</p> <p>tttttcagcc actttttcta cctctctctg tttttctgga tgctcttcaa agcattgctc</p> <p>atcatttatg gaattatggt cattttcctt aggatgatga agtccccgaat gatggtcatt</p> <p>ggctttgcca ttggctatgg gtgcccattg atcatgtgtg tcaactacagt tgctatcaca</p> <p>gagccagaga acggtacat gagacctgag gcctgttggc ttaactggga caataccaaa</p> <p>gcccctttag catttgccat cccggcgctc gtcatgtgg ctgtaaatct gattgtggtt</p> <p>ttggtgtgtg ctgtcaacac tcagaggccc tctattggca gttccaaagt tcaggatgtg</p> <p>gtcataatta tgaggatcag caaaaatgtt gccatctca ctccactgt gggactgacc</p> <p>tggggttttg gaatagccac tctcatagaa ggcacttctt tgacgttcca tataattttt</p> <p>gccttgctca atgctttcca gggttttttt atcctgtgtt ttggaaacct tatggatcac</p> <p>aagataaagag atgcttttag gatgaggatg tcttcaatga aggggaaatc gagggcagct</p> <p>gagaatgcat cactaggccc aaccaatgga tctaaatgaa tgaatcgtca aggatgaaat</p> <p>gtgccccat ttctcatgga tgtcctgaga ccaagagggg gatccagga gaaagaggcc</p> <p>atggaaaagca ggctggagt agagggaatg gtcatgtctt ctgtggaagc ttctcttctt</p> <p>tgtcaggagt gactccaaag ctcttgggtcg gccgaagaaa aactgaggat aacatttgtt</p> <p>gactgggctt taaggagcat gatttatgga ccccttaacc taccctgccc ctgcaagagg</p> <p>ctggcttctt ggtcaatcct gactagatta agagtcaatc tgcaagccat tttatggctt</p>	Homo sapiens
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416 30698 G Protein- Coupled Receptor Ls30698 CAC27252.1 Homo sapiens

ccctggccag ctgggggctg tagggccctg ctgggcttgg tcgtctttca ctctgaggc
ctgctctgt gctccatagc ttagctctcc atcactctgc gtggatcctg ggtactttgg
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acataaacga atatatgtac ctttcac

MMKMQATMI CCLVFLSTE CSHYSKIHL KSYSEVANHI LDTAAISNWA FIPKNASSD P
LLQSVNLFAR QLHIHNSEN IVNELFIQTK GFHINHNTSE KSLNFSMSMN NTTEDILGMV
QIPROELRKL WPNASQAISI AFPTLGAILR EAHLQNVSLP RQVNGLVLSV VLPERLQEI
LTFEKINKTR NARAQCVGWH SKRRWDEKA COMMLDIRNE VKRCNYTSV VMSFSILMSS
KSMTDKVL DY ITCIGLSVSI LSLVLCIIIE ATVWSRVVVT EISYMRHVC I VNIASVLLTA
NVWFIIGSHF NIKAQDYNMC VAVTFESHFF YLSLFFWMLF KALLIIYGIL VIFRRMMSR
MMVIGFAIGY GCPLIIAVTT VAITEPENGY MRPEACWLNW DNTKALLAFA IPAFVIVAVN
LIVLVAVN TORPSIGSSK SQDVVIMRI SKNVAITPL LGLTWGFGIA TLIETGSLTF
HIIFALLNAF QGFFILLFGT IMDHKIRDAL RMRMSSLKKG SRAAENASLG PTNGSKLMNR

QG

417 30875 G Protein- Coupled Receptor GPR87/GPR95 NM_023915 Homo sapiens

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atcagatcac tgcaaatgtg gagaagatcg gaagtctcga tatattatga ttacactgat

418	30875	G Protein- Coupled Receptor GPR87/GPR95	NP_076404.1	gtgtaggcct tttatgtgtt gttggaatcg atatgtacaa agtgtaaata aatgtttctt ttcattatcc ttaaaaaa aa MGFNLTIAKL PNNEHGOES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILN P GLAVWIFFHI RNKTSIFYL KNIVVADLIM TLTFPFRIVH DAGFGPWYFK FILCRYTSVL FYANMYTSIV FLGLISIDRY LKVKPFQDS RMYSTFTKV LSVCVWVIMA VLSLPNIILT NGQPTEDNIH DSKIKSPLG VKWHTAVTYV NSCLFVAVLV ILIGCYAIS RYIHKSSROF ISQSRKRKH NQSIKRVAV FFTCFLPYHL CRIPFFSHL DRLDESAQK ILYYCKEITL FLSACNVCLD PIIFYFMCRS FSRRLFKKSN IRTRESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttcagtcgt ccagcagtcgt ctgcccaccc cagccgagg tgcactgacc A atgagcctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggaggag ggtggcgaag gggcgctcat catcacccag ttcattgcga ccatattttt gtctgcctgg gaaacctggt catcgtggtc acctgtaca agaagtccta cctcctcacc ctcagcaaca agttegtctt cagcctgact ctgtccaact tctgtgtgtc cgtgttggtg ctgccttttg tggtagcagg ctcctccgc agggaatgga tctttggtgt agtgtggtc aacttctctg cctcctcta cctgtgatc agctctgcca ccatgctaac cctcggtgc attgcatcgc accgtacta tgcgtgctg taccctcagg gtaccccat gaagatcaca gggaacccgg ctgtgatggc acttgtctac atctggcttc actcgtcat cggctgctg ccaccctgt ttgtgtggtc atcctggag tttagcaggt tcaaatggat gtgtgtggt gcttggcacc gggagcctgg ctacacggcc ttctggcaga tctgtgtgtc cctcttcccc ttctgtgta tgcgtgtgtg ctatggcttc atcttcgagc tggccagggt caaggcaccg aaggtgcat gtggcacagt cgtcatcgtg agcagaggag ctcagaggac cgggtgtggtc aactccagca cctccacctc ctcttcaggc accatctcgt tggctcctgg tgccttcagt tactcggcca accagtgaac agccctcacc accatctcgt tggctcctgg gaaagctcc gtcactggg gccctacat ggttgtcat gccctgagg cctctgggg gaaagctcc gtctcccca gctggagac ttggggcaca tggctgtcct ttgccagcgc tgtctgccac ccccgatct atggactctg gaacaagaca gttcgcaaa aactactggg catgtgcttt gggaccgggt attatcggga accattgtg caacgacaga ggaactccag gctcttcagc attccaaca ggatacaga cctgggctgt tccccacc tcaactgcgt catggcagggt ggacagcccc tggggcacag cagcagcag ggggacactg gcttcagctg ctcccaggac tcaggtaacc tgcgtgcttt ataagcctct cacctgtcgc gtttccctg tgttgctgtt ccccgtgtc gcgttcccc tgtgcaggct caagagctgg cggaggggca ttccccacgg tg	Homo sapiens
419	31568	G Protein- Coupled Receptor RE2	NM_007369	gtgtaggcct tttatgtgtt gttggaatcg atatgtacaa agtgtaaata aatgtttctt ttcattatcc ttaaaaaa aa MGFNLTIAKL PNNEHGOES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILN P GLAVWIFFHI RNKTSIFYL KNIVVADLIM TLTFPFRIVH DAGFGPWYFK FILCRYTSVL FYANMYTSIV FLGLISIDRY LKVKPFQDS RMYSTFTKV LSVCVWVIMA VLSLPNIILT NGQPTEDNIH DSKIKSPLG VKWHTAVTYV NSCLFVAVLV ILIGCYAIS RYIHKSSROF ISQSRKRKH NQSIKRVAV FFTCFLPYHL CRIPFFSHL DRLDESAQK ILYYCKEITL FLSACNVCLD PIIFYFMCRS FSRRLFKKSN IRTRESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttcagtcgt ccagcagtcgt ctgcccaccc cagccgagg tgcactgacc A atgagcctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggaggag ggtggcgaag gggcgctcat catcacccag ttcattgcga ccatattttt gtctgcctgg gaaacctggt catcgtggtc acctgtaca agaagtccta cctcctcacc ctcagcaaca agttegtctt cagcctgact ctgtccaact tctgtgtgtc cgtgttggtg ctgccttttg tggtagcagg ctcctccgc agggaatgga tctttggtgt agtgtggtc aacttctctg cctcctcta cctgtgatc agctctgcca ccatgctaac cctcggtgc attgcatcgc accgtacta tgcgtgctg taccctcagg gtaccccat gaagatcaca gggaacccgg ctgtgatggc acttgtctac atctggcttc actcgtcat cggctgctg ccaccctgt ttgtgtggtc atcctggag tttagcaggt tcaaatggat gtgtgtggt gcttggcacc gggagcctgg ctacacggcc ttctggcaga tctgtgtgtc cctcttcccc ttctgtgta tgcgtgtgtg ctatggcttc atcttcgagc tggccagggt caaggcaccg aaggtgcat gtggcacagt cgtcatcgtg agcagaggag ctcagaggac cgggtgtggtc aactccagca cctccacctc ctcttcaggc accatctcgt tggctcctgg tgccttcagt tactcggcca accagtgaac agccctcacc accatctcgt tggctcctgg gaaagctcc gtcactggg gccctacat ggttgtcat gccctgagg cctctgggg gaaagctcc gtctcccca gctggagac ttggggcaca tggctgtcct ttgccagcgc tgtctgccac ccccgatct atggactctg gaacaagaca gttcgcaaa aactactggg catgtgcttt gggaccgggt attatcggga accattgtg caacgacaga ggaactccag gctcttcagc attccaaca ggatacaga cctgggctgt tccccacc tcaactgcgt catggcagggt ggacagcccc tggggcacag cagcagcag ggggacactg gcttcagctg ctcccaggac tcaggtaacc tgcgtgcttt ataagcctct cacctgtcgc gtttccctg tgttgctgtt ccccgtgtc gcgttcccc tgtgcaggct caagagctgg cggaggggca ttccccacgg tg	Homo sapiens
420	31568	G Protein- Coupled Receptor RE2	NP_031395.1	gtgtaggcct tttatgtgtt gttggaatcg atatgtacaa agtgtaaata aatgtttctt ttcattatcc ttaaaaaa aa MGFNLTIAKL PNNEHGOES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILN P GLAVWIFFHI RNKTSIFYL KNIVVADLIM TLTFPFRIVH DAGFGPWYFK FILCRYTSVL FYANMYTSIV FLGLISIDRY LKVKPFQDS RMYSTFTKV LSVCVWVIMA VLSLPNIILT NGQPTEDNIH DSKIKSPLG VKWHTAVTYV NSCLFVAVLV ILIGCYAIS RYIHKSSROF ISQSRKRKH NQSIKRVAV FFTCFLPYHL CRIPFFSHL DRLDESAQK ILYYCKEITL FLSACNVCLD PIIFYFMCRS FSRRLFKKSN IRTRESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttcagtcgt ccagcagtcgt ctgcccaccc cagccgagg tgcactgacc A atgagcctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggaggag ggtggcgaag gggcgctcat catcacccag ttcattgcga ccatattttt gtctgcctgg gaaacctggt catcgtggtc acctgtaca agaagtccta cctcctcacc ctcagcaaca agttegtctt cagcctgact ctgtccaact tctgtgtgtc cgtgttggtg ctgccttttg tggtagcagg ctcctccgc agggaatgga tctttggtgt agtgtggtc aacttctctg cctcctcta cctgtgatc agctctgcca ccatgctaac cctcggtgc attgcatcgc accgtacta tgcgtgctg taccctcagg gtaccccat gaagatcaca gggaacccgg ctgtgatggc acttgtctac atctggcttc actcgtcat cggctgctg ccaccctgt ttgtgtggtc atcctggag tttagcaggt tcaaatggat gtgtgtggt gcttggcacc gggagcctgg ctacacggcc ttctggcaga tctgtgtgtc cctcttcccc ttctgtgta tgcgtgtgtg ctatggcttc atcttcgagc tggccagggt caaggcaccg aaggtgcat gtggcacagt cgtcatcgtg agcagaggag ctcagaggac cgggtgtggtc aactccagca cctccacctc ctcttcaggc accatctcgt tggctcctgg tgccttcagt tactcggcca accagtgaac agccctcacc accatctcgt tggctcctgg gaaagctcc gtcactggg gccctacat ggttgtcat gccctgagg cctctgggg gaaagctcc gtctcccca gctggagac ttggggcaca tggctgtcct ttgccagcgc tgtctgccac ccccgatct atggactctg gaacaagaca gttcgcaaa aactactggg catgtgcttt gggaccgggt attatcggga accattgtg caacgacaga ggaactccag gctcttcagc attccaaca ggatacaga cctgggctgt tccccacc tcaactgcgt catggcagggt ggacagcccc tggggcacag cagcagcag ggggacactg gcttcagctg ctcccaggac tcaggtaacc tgcgtgcttt ataagcctct cacctgtcgc gtttccctg tgttgctgtt ccccgtgtc gcgttcccc tgtgcaggct caagagctgg cggaggggca ttccccacgg tg	Homo sapiens
421	36534	G Protein- Coupled	NM_003667	gtgtaggcct tttatgtgtt gttggaatcg atatgtacaa agtgtaaata aatgtttctt ttcattatcc ttaaaaaa aa MGFNLTIAKL PNNEHGOES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILN P GLAVWIFFHI RNKTSIFYL KNIVVADLIM TLTFPFRIVH DAGFGPWYFK FILCRYTSVL FYANMYTSIV FLGLISIDRY LKVKPFQDS RMYSTFTKV LSVCVWVIMA VLSLPNIILT NGQPTEDNIH DSKIKSPLG VKWHTAVTYV NSCLFVAVLV ILIGCYAIS RYIHKSSROF ISQSRKRKH NQSIKRVAV FFTCFLPYHL CRIPFFSHL DRLDESAQK ILYYCKEITL FLSACNVCLD PIIFYFMCRS FSRRLFKKSN IRTRESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttcagtcgt ccagcagtcgt ctgcccaccc cagccgagg tgcactgacc A atgagcctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggaggag ggtggcgaag gggcgctcat catcacccag ttcattgcga ccatattttt gtctgcctgg gaaacctggt catcgtggtc acctgtaca agaagtccta cctcctcacc ctcagcaaca agttegtctt cagcctgact ctgtccaact tctgtgtgtc cgtgttggtg ctgccttttg tggtagcagg ctcctccgc agggaatgga tctttggtgt agtgtggtc aacttctctg cctcctcta cctgtgatc agctctgcca ccatgctaac cctcggtgc attgcatcgc accgtacta tgcgtgctg taccctcagg gtaccccat gaagatcaca gggaacccgg ctgtgatggc acttgtctac atctggcttc actcgtcat cggctgctg ccaccctgt ttgtgtggtc atcctggag tttagcaggt tcaaatggat gtgtgtggt gcttggcacc gggagcctgg ctacacggcc ttctggcaga tctgtgtgtc cctcttcccc ttctgtgta tgcgtgtgtg ctatggcttc atcttcgagc tggccagggt caaggcaccg aaggtgcat gtggcacagt cgtcatcgtg agcagaggag ctcagaggac cgggtgtggtc aactccagca cctccacctc ctcttcaggc accatctcgt tggctcctgg tgccttcagt tactcggcca accagtgaac agccctcacc accatctcgt tggctcctgg gaaagctcc gtcactggg gccctacat ggttgtcat gccctgagg cctctgggg gaaagctcc gtctcccca gctggagac ttggggcaca tggctgtcct ttgccagcgc tgtctgccac ccccgatct atggactctg gaacaagaca gttcgcaaa aactactggg catgtgcttt gggaccgggt attatcggga accattgtg caacgacaga ggaactccag gctcttcagc attccaaca ggatacaga cctgggctgt tccccacc tcaactgcgt catggcagggt ggacagcccc tggggcacag cagcagcag ggggacactg gcttcagctg ctcccaggac tcaggtaacc tgcgtgcttt ataagcctct cacctgtcgc gtttccctg tgttgctgtt ccccgtgtc gcgttcccc tgtgcaggct caagagctgg cggaggggca ttccccacgg tg	Homo sapiens

Receptor
GPR49

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tggacaagat caaaacacc aagcttgatg tcaattaaact ctgatgatg cgaataacag

Homo
sapiens

422 36534 G Protein- Coupled Receptor GPR49 NP_003658.1

tctgtgact caactcaagc cttggttaacc ttaccagct ccagcatcac ttatgacctg
cctccagtt ccgtgccatc accagcttat ccagtgactg agagctgcca tcttctctct
gtggcatttg tcccatgtct ctaa
MDTSRLGVLL SLPVLQLAT GGSSPRSGVL LRGCPTHCHC EPDGRMLLRV DCSDLGLSEL P
PSNLSVFTSY LDLSMNISIQ LLPNPLPSLR FLEELPKAGF TGLYSLKVLIM
LQNNQLRHVP TEALQNRLS QSLRLDANHI SYVPSFCFSG LHSLRHLWLD DNLTEIPVQ
AFRSLSALQA MTLALNKIHH IPDYAFGNLS SLVVLHLNN RHSLGKKCF DGLHSLFID
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YNLEDLPSF SVCQKLQKID LRHNEIYEIK VDTFQQLSL RSLNLAWNKI AIHPNAFST
LPSLIKLDLS SNLLSFPIT GLHGLTHLKL TGNHALQSLI SSENPELKV IEMPYAYQCC
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CSPSPGPFKP CEHLDDWLI RIGVWTIAVL ALTCNALVTS TVERSPLYIS PIKLLIGVIA
AVNMLTGVSS AVLAGVDAFT FGSFARHGAW WENGVGCHVI GFLSIFASES SVFLLTLAAL
ERGFVKYSA KFETKAPFSS LKVIILICAL LALTMAAVPL LGGSKYGASP LCLPLPFGEP
STMGYMVALI LLNSLCFLMM TIAYTKLYCN LDKGDLENIW DCSMVKHIAL LLFTNCILNC
PVAFISFSSL INLTIFISPEV IKFILLVVVP LPACLNLPLY ILFNPHEKED LVSLRKQTYV
WTRSKHPSLM SINSDDVEKQ SCDSTQALVT FTSSSITYDL PPSSVPSPAY PVTESCHLSS
VAFVPCIL

Homo
sapiens

423 37498 Xenotropic and Polytopic Retrovirus Receptor (XPRI) NM_004736

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gcgcagcgcc gcgcgcgcgc ggggcccctg tggggaggag tcggagtcgc tgttgcgcgc
gcgcgcctga gctgctggac ccgagtgga gtgaggggga aacggcagga tgaagttcgc
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424	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	<p> ccccctccat aaggtaggct ttgtgatatt ctggctggcg gatcagctga acagcctgtc agtatactg atggacctgg aatatatgat ctgcttttac agtttggagc tcaaatggga tgaagtaag ggcctgttgc caaataatc agaagaatca ggaatttgcc acaaatatac atatggtgtg cgggcatatg ttcatgtcat tcctgtctgg ctctgcttca tccagtgcct gcgccgatat cgagacacaa aaagggcctt tcctcattta gttaatgctg gcaagtactc cacaacttcc ttcatggtgg cgttgcagc cctttacagc atccacaaag aacgaggtca ctcgacact atggtgttct tttacctgtg gattgtctt tatacatca gttcctgcta tacctcatc tgggatctca agatgactg ggtctcttc gataagaatg ctggagagaa cacttcttc cggaagaga ttgtataccc ccaaaaagcc tactactact gtgccataat agagatgtg attctgcgt ttgcttggac tatccaaatc tcgattacct ctacaactt gtgacctcat tctgggaca tcattgtac tgtcttggc ccacttgagg ttttcggcg atttgtgtg aacttcttc gcctggagaa tgaacatctg aataactgtg gtgaattccg tgctgtgagg gacatctctg tggccccct gaacgcagat gatcagactc tcctagaaca gatgatggac caggtgatg ggtacgaaa ccgccagaag atcgggtcat ggaagtacaa ccagagcata tccctgcgc gcctgcct cgcttctcaa tccaaggctc gtgacactaa ggtattgata gaagacacag atgatgagc taacacttga atttctgaa gtctagctta acatcttctg tttctact ctacaactc tctctgacc aacgcaacct ctagtacctt tccagccgaa aacagagaa aacacataac acattttccg agctcttccg gatcggatcc tatggactcc aaacaagctc actgtgttct tttcttttc tgccaatcag aggatgtttt aagaaacaaa tctatttca aaacaagtat ttacttcat tgcacacata gatacctatc aggatgaaga acatgatac ttatggattg ttacacata caggtatgga tatctcgctc tccgctcagc acaggcatg caaggacct ctggtggac cggacattg gttttgaat ttttgcagc tttatgtgga ccggttttga atggtgaaa cggacattg gttttgaat ttttgcagc tttatgtgga gaattttttt cttctctca taccagcgc aaaggcactg gccgacttg caggaaaagt gcaacttaaa gcagtacctt cattcatgaa gctacttttt aatttgatgt aacttttctt attttgggaa ggttgcctg gtgggtggga aatatgatgt attgttaca catagttttc tcattattta tgaaccttaa ccatacagaa tgatataact cctgtgcaat gaagtgata acagtaaaa aagcgaggag aaaaaaaa acagtaaaa MKFAEHLAHS ITPEWRQYI QYAEFKDMLY SAQDQAPSVE VTDEDTVCRY FAKFEKFFQ P TCEKELAKIN TFYSEKLAEA QRRFATLQNE LQSSLDAQKE STGVTTLRQR RKPVFHLSHE sapiens ERVQHRNIKD LKLAFFSEYL SLILLQYQN LNFTGFRKIL KKHDKILETS RGADWRVAHV EVAPFYTCCK INQLISETEA VTNLELEDGD RQKAMKRLRV PPLGAAQAPAWTTFRVGLF CGIFIVLNT LVLAAVFKLE TDRSIWPLIR IYRGFFLLIE FLELLGINTY GWRQAGVNHV LIFELNPRSN LSHQHLFEIA GFLGILWCIS LLACFFAPIS VIPTYVYPLA LYGFVVFELI NPTKTFYKS RFWLLKLLER VFTAPFHKVG FADFVLADQL NLSVLMDL EYMICFYSLE LKWDESKGLL PNNSESGIC HKYTYGVRAI VQCI PAWLRF IQCLRRYRDT KRAFPHLVNA GKYSTTFMW AFAALYSTHK ERGHSDTWVF FYLWIVFYII SSCYTLIWDL KMDWGLFDKN AGENTFLREE IVYPQKAYY CAIIEDVILR FAWTIQISIT STLLPHSGD IATVEAPLE VFRFVWNEFF RLENEHLNCC GEFRVARDIS VAPLNADDQT LLEQMDQDD GVRNRQKNRS WKYNQISISLR RPRLASQSKA RDTKVLIEDT DDEANT </p>	Homo sapiens
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425	40881	Lung Seven Transmembran e Receptor 2 (LUSTR2)	AX073578	agagatggca gtgagcgaga ggaggggggt cgggcgggg agccccggg agtgggggca A gcggtactt ctggtgtgc tgttgggtgg ctgctccgg cgcattccacc ggctggcgt gacggggag aagcgagcg acatccagct gaacagcttc ggtttctaca ccaatggctc tctggaggtg gatttgagcg tctcggtggt gggcctccgg gaggcagaag agaagtcctt gctgggtggg ttcagttcca gccgggttgg gctggcaga gttcgctcct attcaaccgg ggatttccag gactgcctc tccagaaaaa cagtagcagt tctcggtcc tgttctctat caacaccaag gactgcagg tccagggtcg gaagtatgga gacgagaaga cgttgtttat ctttccggg ctctccggg aagcaccctc caaacaggg cttccgaagc cacaggccac agtccccgc aagtggtgag gcggaggag cctcgagc agcaagcca agtcaacacc cgcagtatt cagggtccta gtgggaagga caaggacctg gtgttgggccc ttagccacct caacaactcc tacaacttca gtttccagct ggtgatcgcc tctcaggcgg aagaaggcca gtacagcctg aacttccaca actgcaacaa ttcagtgcca ggaaggagc atccattcga catcagggtg atgatccggg agaagaacc cgtggcttc ctgtcggcag cggagatgcc ccttttcaag ctctacatgg tcatgtccgc ctgcttctct gccgtggca tcttctgggt gtccatcctc tgcaggaaaca cgtacaggt cttcaagatc cactggctca tggcgccctt ggccttacc aagagcatct ctctcctct ccaagcacc aactactact tcatcaacag ccagggccac cccatcgaag gccctgcgt catgtactac atcgacacc tgcgaagg cgccctcctc ttcataccca tgcctctgat tggctcaggc tgggcttca tcaagtacgt cctgtcggt aaggagaaga agtcttctgg gatcgtgatc cccatgcagg tcttggccaa cgtggcctac atcatcatcg agtcccgga ggaaggcgc agcactacg tgcgtggaa ggagattttg ttcctgggtg acctcatctg ctgtgggtcc acctgttcc ccgtagtctg gtccatccgg catctccagg atcgctctgg cacagacggg aagtgggcag tgaacctggc caagctgaag ctgttccggc attactatgt catgtctatc tgcactgtct acttccccc catcatcgcc atcctgtgc agtggtctgt gcccttccag tggcagtggc tgtaccagct cttgggtggg ggtccacc cgtacacctg agtgccccca ggtctcag ggtacaaagt tccagcccc agggaaacac cgtacacctg agtgccccca ggtacacctg ggtacaaagt tccagcccc agtaatgacg gactctgggt tccgggaagg cctctccaa gtcaacaaa cagccagcg gcgggaactg ttatgatcac ctccacatct cagaccaaa ggtcgtcctc cccagcatt tctcactcct gcccttctc cacagcgtat gtggggaggt ggaggggtc catgtggacc agggccccag ctccccggga ccccggttc cggacaagcc catttggag aagatccct tctcccccc aaatatggg cagccctgtc ctaccgccg gaccacctt ccttccagc tatgtgtaca ataagacca atctgttgg ct	Homo sapiens
426	40881	Lung Seven Transmembran e Receptor 2 (LUSTR2)	CAC28410.1	MAVSERRGLG RGSPAEGQR LLLVLLGCG SGRIHRLALT GEKRAIQLN SFGFYTNGSL P EVELSVLRIG LREAEXSIL VGFSLSRVRS GRVRSYSTRD FQDCPLQKNS SSFLVLFILIN TKDLQVVRK YGEQKTLFIF FGLLPEAFSK PGLPKQATV PRKVDGGTS AASKPKSTPA VIQGPSKDK DLVLGLSHLN NSYNFSFHV IGSQAEEGY SLNFHNCNS VPKHEHFFDI TVMIREKNPD GFLSAAEMPL FKLYMMSAC FLAAGFIWV ILCRNTYSVF KIHWMALAA FTKSISLLEH SINYFINSQ GHPIEGLAVM YYIAHLLKGA LLFITTIALIG SGWAFIKYVL SDKEKKVFGI VIPMQVLAV AYIIIESREE GASDYLWKE ILFLVDLICC GAILFPVWS IRHLQDASGT DGKAVNLAK LKLFRRHYVM VICVYFTRI IAILLQVAVP FQWQWLYQLL VEGSTLAFV LTGYKFOPTG NNPLYQLPQE DEEDVQMEQV MTDSGFREGI SKVNKTASGR	Homo sapiens

427	42697	G Protein- Coupled Receptor GPR64	NM_005756	ELL	Homo sapiens
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 PSSNEVETTS LNDVTLSLP SNETETKIT IVKTFNASGV KPQRNICNLS SICNDSAFFR sapiens

428 42697 G Protein-
Coupled

Homo
sapiens

Receptor
GPR64

429 45937 KIAA1624 AF376725
Protein

Homo sapiens

GEIMFQYDKE	STVPQNHIT	NGTLTGVLSL	SELKRSELNK	TLQTLSEYF	IMCATAEAQ
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VVCLADHPRGP	PFSOSSQSPV	VTRATVLSQV	PKATSEAEPP	DYSPVTHNVP	SPIGEIQPLS
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430

45937 KIAA1624
Protein

AAK57695

Homo
sapiens

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431

50847 Neurotensin
Receptor
type 2

NM_012344

Homo
sapiens

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432	50847	Neurotensin Receptor type 2	NP_036476.1	PSSNPGLSLD ARLGVDTRLW AKVLFATALYA LIWALGAAGN ALSVHVVLKA P RAGRAGRLRH HVLSIALAGL LLLLVGPVE LYSEWFHYP WVFGLGCRG YFVHELCAV ATVLSVAGLS AERCLAVCQP LRARSLTLP RTRWLVALSW AASLGLALPM AVIMGQKHEL ETADGEPEPA SRVCTVLVSR TALQVFIQVN VLVSFVLPLA LTAFLNGTV SHLLALCSQV PSTSTPGSST PSRLELISEE GLLSFIWKKI PLYQGHQVSL VRHKDVRIR SLQRSVQVLR AIVVMYVICW LPYHARRLMY CYVPDDAWTD FLNYGFHYFY MVTNTLFYVS SAVTPLLYNA VSSSFRKLFL EAVSSLCGEH HPMKRLPKP QSPITLMDPAS GFGDPPETRI cagagaggct gtatttcagt gcagcctgcc agacctcttc tggaggaaag ctggacaaag A gggggtcacac attccttcca tacgggtgag cctctacctg cctgggtgctg gtcacagttc agctttctca tgatgttga tcccaatggc aatgaatcca gtgtacata cttcatccta ataggccctcc ctgggtttaga agaggctcag ttctgggttg ccttcccat gtgtccctc taccttattg ctgtgctagg taacttgaca atcatctaca ttgtgctgac ttgtgctgac ctgcatgagc ccattgtatat atttctttgc atgttttcag gcattgacat cctcatctcc acctcatcca tgcccaaat gctggccatc ttctggttca attccactac catccagttt gatgcttgct tgctacagat ttttgccatc cactccttat ctggcatgga atccacagtg ctgctggcca tggcttttga ccgctatgtg gccatctgtc accactgog ccattgccaca gtacttacgt tgctctgtg caccaaaatt gggtgtgctg ctgtgtgctg gggggtgca ctgatggcac ccttctctgt cttcatcaag cagctgccct tctgccgctc caatatacctt tcccattct actgcttaca ccaagatgtc atgaagctgg cctgtgatga tatccgggtc aatgtgtct actgcttctat cgtcatcctc tccgccattg gctgtgactc atttctctatc tccttctcat atctgcttat tcttaagact gtgttgggtg tgacacgtga agcccaggcc aaggcatttg gcacttgctg ctctcatgtg tgtgtgtgtg tcatattcta tgtacctttc attggattgt ccattgtgca tgccttttag cagcggctg actctccgt gcccgctc ttggccaata tctatctgct ggttctctct gtgtctcaac caattgtcta tggagtgaag acaaaggaga ttcgacagcg catccttcca cttttccatg tggccacaca cgcttcagag ccctagggtg cagtgateca acttcttttc cattcagagt cctctgattc agattttaat	Homo sapiens
433	53440	G Protein- Coupled Receptor LS53440	AX107037	ctggacaaag A ctgacagttc cttcatccta gtgtccctc ttgtgctgac gcattgacat attccactac atccacagtg atccacagtg accactgog ccattgccaca gggtgtgctg ctgtgtgctg tctgccgctc caatatacctt tatccgggtc acttctctatc tgacacgtga agcccaggcc tgtacctttc tgtacctttc ggtctcctct caattgtcta tggagtgaag cgcttcagag agattttaat	Homo sapiens

434	53440	G Protein- Coupled Receptor LS53440	CAC38935.1	gttaacattt tggaagacag tattcagaaa aaaaatttcc ttaataaaaa atacaactca gatcctcaa atatgaact ggttgggaa tctccatttt ttcaatatta ttttcttctt tggtttcttg ctacataaa ttattatac cctgactagg ttgtggttgg aggtttatta cttttcattt taccatgcag tccaaatcta aactgcttct actgatggtt tacagcattc tgagataaga atggttacatc tagagacatc ttgccaaagg cctaagcacg gcaaggaaa ataaacacag aatataataa aatgagataa tctagtctta aactataact tctctctcag aactcccaac cacattggat ctacagaaaa tctgtcttcc aaatgactt ctacagaaa gaaataattt ttctcttgga cactagcact taagggaag attggaagta aagccttgaa aagagtacat ttacctacgt taatgaagt tgacacactg ttctgagagt ttcacagca tatggacctt gtttttctta ttttaatttc ttatcaacct ttaattagg caaatatt attagtaccc tcattgtagc catgggaaaa ttgatgttca gtgggatca gtgaattaaa tggggtcata caagtataaa aattaaaaaa aaaaagact tcatgcccaa tctcatatga tgtggaagaa ctgttagaga gaccaacagg gtatggggtt agagatttcc agagtcttac atttctaga ggaggtattt aatttcttct cactcatcca gtgttgtatt taggaatttc ctggcaacag aactcatggc tttaatccca ctatgattg cttattgtcc tggccaatt gccaattacc tgtgtcttgg aagaagtgat ttctagggtc accattatgg aagattctta ttcagaagt ctgcataagg cttatagcaa gttatttatt tttaaaagt ccatagtgga ttctgatagg cagtgggtt agggagccac cagttatgat gggaaagtat gaatggcagg tcttgaagat aacattggcc ttttgagtgt gactcgtagc tggaaaagtga ggaatcttc aggaccatgc ttatttggg gctttgtgca gtatggaaca gggactttga gaccagaaa gcaatctgac ttaggcatgg gaatcaggca tttttgttcc tgagggttga ttaccaagg ttaatagggt tcactcttcaa caggatatga caacagtgtt aaccaagaaa tcaaatatc aaatactaaa acatgtgatc atatatgtg taagtttcat tttcttttc aatcctcagg ttccctgata tggattctta taacatgctt tcacccctt ttgtaatgga tatcatattt ggaaatgcct atttaatact tgtatttgt gctggactgt aagcccatga gggcactgtt tattattgaa tgtcatctct gtccatcatt gactgctctt tgctcatcat tgaatcccc agcaaatgct ctagaacata atagtgttca tgcctgacac cggttatttt tcatcaaac tgattccttc tgcctgaac acatagccag gcaatttcc agccttctt gacttgggta ttattaaatt ctggccatta ctccaatgt gagtggagt gacatgtgca atttctatc ctggctcata aaacctccc atgtgcagcc tttcatgttg acattaaatg tgacttggga agctatgtgt tacacagagt aaatcacag aagcctggat ttctgaaaa actgtgcaga gccaaacctc tgtcatttgc aactccact tgtatttga cgaggcagtt ggataagtga aaaaataagt actatttgt caagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa	Hom sapiens
				atcaactca ttttcttctt ttcaatatta ttttcttctt tggtggttgg aggtttatta cctgactagg ttgtggttgg aggtttatta actgcttct actgatggtt tacagcattc cctaagcacg gcaaggaaa aactataact tctctctcag cctaagcacg gcaaggaaa aaatgactt ctacagaaa aagccttgaa attggaagta aagccttgaa ttctgagagt ttcacagca ttaattagg caaatatt gtgggatca gtgaattaaa tctcatatga tctcatatga agagatttcc agagtcttac aggttgtatt taggaatttc cttattgtcc tggccaatt accattatgg aagattctta ttttaaagt ccatagtgga gggaaagtat gaatggcagg tggaaaagtga ggaatcttc gggactttga gaccagaaa tgagggttga ttaccaagg tcaaatatc aaccaagaaa taagttttc aatcctcagg tttcttttc aatcctcagg ttgtaatgga tatcatattt ggcactgtt aagcccatga gggcactgtt tgctcatcat tgaatcccc agccttctt gacttgggta gcaatttcc agccttctt gacttgggta gacatgtgca atttctatc acattaaatg tgacttggga ttctgaaaa actgtgcaga tctgtgagat ttctgaaaa actgtgcaga cgaggcagtt ggataagtga aaaaaaaaaa aaaaaaaaaa afplcslvli avlgnltiiv ivrtheslhe p pgleaqfwl nsttiqfdac llqmfaihsL sgmetvlla mpkmlaifwf avvrqalwa plpvfikhlp fcrsnilshs yglivisai glsllsfs yllilktvlG ltreaqakaf smvhrfskrr dsplpvilan iyllvppvln pivygvtke vathasep	

435	54053	Gaba(b) Receptor 2	NM_005458	Homo sapiens
				atggcttccc cgcggaggctc cgggcagacca gggcgggcgcg cgcgcgcgc accgcgcgcc accgcgcgcc
				gcgcgcctgc tactgtact gctgtgtccg ctgtgtgtgc ctctggcgcc ctctggcgcc cggggcctgg
				ggctggcgcc ggggcgcgcc cgggcgcgc cccagcagcc cgcgccttc catcatgggc
				ctcatggcgc tcaccaagga ggtggccaag ggcagcatcg ggcggtgtgt gctccccgcc
				gtggaactgg ccacagagca gatccgcaac ggtcactcc tgcgccccca ctctctcgac
				ctgcgctct atgacagga gtgcgcaac gtaaaaggt tgaagcctt ctacgatga
				ataaatacy ggcgaacca ctgtatgggt tttggaggg tttgtccat cgtcacatcc
				atcattgcag agtccctcca aggtggaat ctggtgcag tttctttgc tgaacacacg
				cctgttctag ccgataagaa aaataacct tattctttc ggacgttccc atcagacaat
				gcggtgaatc cagccattct gaagtgtct aagcactacc agtggaaag cgtgggcagc
				ctgacgcaag acgttcagag gttctctgag gtgcggaatg acctgactgg agttctgtat
				ggcgaggaca ttgagatttc agacacgag agcttctcca acgatccctg taccagtgtc
				aaaaagctga aggggaatga tgtgcggatc atccttggcc agtttgacca gaatatggca
				gcaaaagtgt tctgttgtgc atacgaggag aacatgtatg gtatgaaata tcagtggatc
				attccgggct ggtacagcc tcttgggtgg gacgagtgct acacggaagc caactcatcc
				cgtgcctcc ggaagaatct gcttgcctgc atggagggt acattggcgt ggatttcgag
				ccccctgagt ccaagcagat caagaccatc tcaggaaaga ctccacaga gtatgagaga
				gagtacaaca acaagcggctc aggcgtgggg cccagcaagt tccacgggta cgcctacgat
				ggcatctggg tcactgcca gacactcag agggccatgg agacactgca tgccagcagc
				cggcaccagc ggatccagga cttaactac acggaccaca cgtggggcag gatcatcctc
				aatgccatga acgagacca ctcttcggg gtcacgggtc agttgtatt ccggaatggg
				gagagaatgg ggaccattaa atttactcaa ttccaaggga gcaggggagt gaaggtggga
				gagtacaacg ctgtggcga cacactggag atcatcaatg acaccatcag gtccaaagga
				tccgaaccac caaaagaca gaccatcctc ctggagcagc tgcggaagt ctcctacct
				ctctacagca tcctctctgc cctcaccatc ctcggtgtga tcattggcag tgcctttctc
				ttcttcaaca tcaagaaccg gaatcagaag ctcataaaga tgtcgagtc atacatgaac
				aaccttatca tccttggagg gatgctctcc tatgttcca tatttctct tggccttgat
				ggatcctttg tctctgaaa gacctttga acactttga cgtcaggac ctggattctc
				acgtgggct acagaccgc ttttggggcc atgtttgcaa agacctggag agtccacgcc
				atcttcaaaa atgtgaaat gaagaagaag atcatcaagg accagaaact gcttgtgac
				gtggggggca tgctgctgat cgacctgtt atcctgatct gctggcaggc tgtggacccc
				ctgcgaagga cagtggagaa gtacagcatg gagccggacc cagcaggagc ggaatatctc
				atccgcccct tcctggagca ctgtgagaac accatatga ccatctggt tggcatcgtc
				tatgcctaca agggactct catgttgttc ggtgtttct tagcttggga gacccgcaac
				gtcagcatcc ccgactcaa cgacagcaag tcctcggaac tgagtgtcta caactgggg
				atcattgtga tcctcggggc cgctgtctcc tctcgacc cggaccagcc caatgtgcag
				ttctgcatcg tggctctggt catcatcttc tgcagcacca tcacctctg cctggatttc
				gtgccgaagc tcataccct gagaacaaac ccagatgcag caacgcagaa caggcgattc
				cagttcactc agaatacaga gaaagaagat tctaaaact ccacctcgt caccagtgtg
				aaccaagcca gcacatccc cctggagggc ctacagtcaag aaacccatcg cctgcgaatg
				aagatcacag agctggataa agacttggaa gaggtcacca tgcagctgca ggacacacca

436	54053	Gaba (b) Receptor 2	NP_005449.1	<p>gaaaagacca cctacattaa acagaaccac taccaagagc tcaatgacat cctcaacctg ggaacttca ctgagagcac agatggagga aaggccattt taataaatca cctcgataca aatccacagc tacagtggaa cacaacagag ccctctcgaa catgcaaga tcctatagaa gatataaact ctccagaaca catccagcgt cggctgtccc tccagctccc catcctccac cacgctacc tcccatccat cggaggcgtg gacgcccgt gtgtcagccc ctgctgcagc cccacgcca gccccgcca cagacatgtg ccaccctct tccgagtcac ggtctcgggc ctgtaa</p>	Homo sapiens
437	55728	ETL protein	NM_022159	<p>LMPLTKEVAK GSIGRGVLP VELAIEQIRN ESSLRPFLD LRLYDTECDN AKGLKAFYDA IKYGNHLMV FGVCPSTVS IIAESLQGN LVQLSFAAT PVLADKKKYP YFFRTVPSDN AVNPAILKLL KHYQWKRVT LTQDVQRFSE VRNDLTGVLY GEDIEISDTE SFSNDPCTSV KKLKGNDVRI ILQFDQDMA AKVFCCAYEE NMYGSKYQWI IPGWYEPSWM EQVHTEANSS RCLRKNLLAA MEGYIGVDFF PLSSKQINTI SGKTPQQYER EYNNKRSVG PSKFHGYAYD GIWVIKTLQ RAMETLHASS RHQRIQDFNY TDHTLGRILL NAMNETNFG VTGQVFRNG ERMGTIKFTQ FQDSREVKVG EYNAVADTLE IINDTIRFQG SEPPKDKTII LEQLRKISLP LYSILSALT I LGMIMASAF L FENIKNRNQ LKIMSSPYMN NLIILGMLS YASIFLFLGD GSFVSEKTFE TLCTVTRWIL TVGYTTAFGA MEAKTWRVHA IFKNVVMKKK IIKDQKLLVI VGGMLLIDLC ILICWQAVDP LRRTVEKYSM EPDPAGRDIS IRPLLEHCEN THMTIWLIGIV YAYKGLMLF GCFLAWETRN VSIPALNDSK YIGMSVNVNG IMCIIGAASV FLTRDQPNVQ FCIVALVIF CSTITLCLVF VPKLITLRTN PDAATQNRFF QFTQNQKKED SKTSTSVTSV NQASTSRLEG LQSENHRLRM KITELDKDLE EVTMQLODTP EKTYYIKQNH YQELNDILNL GNFTESTDGG KAILKNHLDQ NPQLQWNTE PSRTCKDPIE DINSPHIQR RLSLQLPILH HAYLPSIGGV DASCVSPCS PTASPRHRV PPSFRVMVSG L</p> <p>gtgaattta aactccagtc ctgtgcgcaa aatgctaatt gcactaacac agaaggaagt A tattattgta tgtgtgtacc tggcttcaga tccagcagta accaagacag gtttatcact aatgatggaa ccgtctgtat agaaaatgtg aatgcaaat gccatttaga taatgtctgt atagctgcaa atattataa aactttaaca aaaatcagat ccataaaga acctgtggct ttgctacaag aagtcctatag aaattctgtg acagatcttt caccaacaga tataattaca tatatagaaa tattagctga atcatcttca ttactaggtt caaagaacaa cactatctca gccaaggaca cctttcttaa ctcaactctt actgaattctg taaaaaccgt gaataatttt gttcaagggt atacatttgt agtttgggac agttatctg tgaatcatag gagaacacat cttcaaaaac tcatgcacac tgttgaacaa gctactttaa ggatatccca gagcttccaa aagaccacag agtttgatac aaattcaacg gatatagtct tcaaaagtttt cttttttgat tcataaaca tgaacatat tcatctctat atgaatatgg atggagacta cataaatata tttccaaaga gaaaagctgc atatgttca aatggcaatg ttgcagttgc atttttatat tataagagta ttggtccttt gctttcatca tctgacaact tcttattgaa acctcaaaat tatgataatt ctgaagagga ggaagagtc atatcttcag taatttcagt ctcaatgagc tcaaacccac ccacattata tgaacttgaa aaaataacat ttacattag tcatcgaaag gtcacagata ggtataggag tctatgtgca ttttggaaat actcacctga taccatgaat ggcagctggt cttcagaggg ctgtgagctg acatactcaa atgagaccca cacctcatgc cgctgtaac acctgacaca ttttgaatt ttgtagtctt ctggtccttc cattgggtatt</p>	Homo sapiens

438	55728	ETL protein	NP_071442.1	MCVPGFRSS NQDRFITNDG EYRNSVTDL SPTDIITYIE DTFVWVDKLS VNHRRTHLTK MKHIHPHNM DGDYINIFPK SEEEERVISS VISVSMSSNP SSEGCETYS NETHSCRCN CIFTWFEESE IQSTRTHK FAMWCIEGIIH LYLIIVGVY STENNEFIWSF IGPACLIILV FLLGTTWIFG VLHVHASV CFGCLR	TVCIENVNAN CHLDNVCIAA ILAESSLLG YKNNTISAKD RISQSFQFT EFDTNSTDIA KVAFLYKYS IGPLLSSSDN FTLSHRKVTD RYRSLCAFWN SGPSIGIKDY NILTRITQLG LVFLVGINTN TNKLFCSIIA NKGFLHKNFY IFGYLSPAVV VGFSAALGYR YGTTKVCWL KVFRHTAGLK PEVSCFENIR FQGMFIFLEL CVLSRKIQEE YRRLFKNVPC	NINKTLTKIR SIKEPVALLQ TLNSNLTLEF VKTNNFVQR EFTDNSTDIA LKVFEDSYN IGPLLSSSDN FLKPKQNYDN RYRSLCAFWN YSPDTMNGSW NILTRITQLG IISLICLAI TNKLFCSIIA GLLHYFFFLAA VGFSAALGYR YGTTKVCWL PEVSCFENIR SCARGALALL CVLSRKIQEE YRRLFKNVPC	Homo sapiens
439	56923	Muscarinic acetylcholine Receptor M3	NM_000740	atgaccttgc acaataacag atacacagcc cctccgatgc aatgtttctc gagcagctgg ggaggtcata ccgtctggca gtgaccatca tcggcaacat	tacaacacctg cctttgtttc agggtgccc cggggaacg caatttctcc tctccagacg agtggcttcc atcgctttct cctgggtaatt gtgtcattta	caaacatcag ctcctcctgg tcactcattt cggcagctac gtaccacga tgaccctctg taacgggcat cctggccttg aggtaacaa gcagctgaag	Homo sapiens

aaagattata atattcttac aagattcaact caactaggaa taattatttc actgatttgt
 cttgccatat gcattttttac cttctggttc ttcagtgaac ttcaagcac caggacaaca
 attcaaaaa atctttgctg tagcctattt cttgctgaac ttgtttttct tgtgggac
 aatacaata ctaataagct cttctgttca atcattgccc gactgctaca ctacttcttt
 ttagctgctt ttgcatggat gtgcattgaa ggcatacatc tctatctcat tgttgggggt
 gcatctaca acaaggatt ttgcaacaag aatttttata tcttgggcta tctaaagccca
 gccgtggtag ttggatttcc ggcagcacta ggatacagat attatggcac accaaaagta
 tgttggctta gcaccgaaaa caactttatt tggagtttta taggaccagc atgcctaact
 attcttgta atctcttggc ttttggagtc atcatataca aagtttttcc tcacactgca
 gggttgaac cagaagttag ttgctttgag aacataaggt cttgtgcaag aggagccctc
 gctctctgt tcttctcgg caccacctgg atctttgggg tctctcctgt tgtgcacgca
 tcagtggta cagcttacct cttcacagtc agcaatgctt tccaggggat gttcattttt
 ttattcctgt gtgttttctc tagaaagatt caagaagaat attacagatt gttcaaaaat
 gtccctgtt gttttgatg tttaaggtaa acatagagaa tgggtgataa ttcaactgc
 acaaaaataa aaattccaag ctgtggatga ccaatgtata aaaatgactc atcaaatat
 ccaattatta actactagac aaaaagtatt ttaaatcagt tttctgttt atgctatagg
 aactgtatg aataaggtaa aattatgtat catatagata tactatgttt tctatgtga
 aatagttctg tcaaaaatag tattgcagat atttggaaa taattgggtt ctcaggagtg
 atactactgc acccaaggaa agattttctt tctaacacga gaagtatatg aatgtcctga
 aggaaccac tggcttgata tttctgtgac tctgtgtgcc ttgaaaacta gtcccctacc
 acctcgtaa tgagctccat tacagaagt ggaacataag agaatagaag ggcagaatat
 caaacagtga aagggaatg ataagatgta ttttgaatga actgtttttt ctgtagacta
 gctgagaaat tgttgacata aaataaagaa ttgaagaac acattttacc atttgtgaa
 ttgttctgaa cttaaatgtc cactaaaca acttagactt ctgtttgcta aatctgttc
 ttttctaatt attctaaaa

440	56923	Muscarinic acetylcholin e Receptor M3	NP_000731.1	acggtcaaca actacttcct cttaaagcctg gcctgtgcg atctgattat cggggtcatt tcaatgaatc tgtttaagac ctacatcatc atgaatcgat gggccttagg gaacttgcc tgtacctct ggcttgccat tgactacgta gccagcaatg cctctgttat gaactttctg gtcatcagct ttgacagata cttttccatc acgagcccg ctcagtaacg agccaaacga acaacaaaga gagccgtgtg gatgatcggt ctggcttggg tcatctctt tgctcttgg gtctctgcca tcttgttctg gcaatacttt ttggaaga gaaactgtgc tccgggagag tgcttcatc agttcctcag tgagccacc attactttg gcacagccat cgctgcttt tatatgcctg tcaccattat gactatttta tactgaaga tctataaga aactgaaaag cgtacccaaag agcttgctgg cctgcaagcc tctgggacag aggcagagac agaaacttt gtccacccca cgggcagttc tcgaagctgc agcagttacg aacttcaaca gcaagcatg aaacgtcca acaggaggaa gtatggcgc gcacacagc cagagctgg aaaccagct ccgagcagat ggaccaagac cacagcagca gtgacagttg gaacaaat gatgctgctg cctccctgga gaactccgc tcctccgacg aggagacat tggctccgag acgagagcca tctactcat cgtgctcaag ctccgggtc acagaccat cctcaactcc accaagtac cctcatcgga caactcgag gtccctgagg aggagctggg gatggtggac ttggagagga aagccgaca cctgcagcc cagaagcag tggacgatgg agcagtttt cctccagct tctccagct tccatccag cttagagtcag ccgtggacac agctaagact tctgacgtca actcctcagt gggtaaagc acggcactc tacctctgtc cttcaaggaa gccactctgg ccaagaggtt tgctctgaag accagaagtc agatcactaa gcgaaaaag atgtccctgg tcaaggagaa gaaagcggcc cagaccctca gtgcgatctt gcttgcttc atcatcactt ggacccata caacatcatg gtcttggtga acaccttttg tgacagctgc ataccaaaaa ccttttgtaa tctgggctac tggctgtgct acatcaacag caccgtgaac cccgtgtgct atgctctgtg caaaaaaca cttcagaacca ctttcaagat gctgctgctg tgccagtgtg aaaaaaaa gaggcgcaag cagcagtacc agcagagaca gtcggtcatt tttcaaga gcgcaccga gcaggccttg tag GGHTVWQVVF IAFLTGILAL VTIIIGNILVI VSEKVNKQLK TNNYFLLSL ACADLIIGVI P SMNFTTYII MNRWALGNLA CDLWLADYV ASNASVMNL VISFDYFSI TRPLTYRAKR TTKRAGVMIG LAWVISFVLW APAILFWQYF VGKRTVPPGE CFIQFLSEPT ITFGTAIAAF YMPVTIMTIL YWRIYKETEK RTKELAGLQA SGTEAETENF VHTGSSRSC SSYELQQSM KRSNRRKYGR CHFWEFTKSW KPSSEQMDQD HSSSDSWNNN DAAASLENSA SSDEEDIGSE TRAIYSIVLK LPHGSTILNS TKLPSSDNLQ VPEELGMVD LERKADKLQA QKSVDGGSF PKFSKLP IQ LESAVDTAKT SDVNSSVGKS TATLPLSFKE ATLAKRFALK TRSQITKRKR MSLVKEKKA QTL SAILLAF IITWTPYNIM VLWNTFCDS IPKTFWNLGY WLCYINSTVN PVCYALCNKT FRTTFKMLLL CQCDKKKRK QYQQRQSVI FHKRAPEQAL gaaactggcc ctggccctga accaaatacc ttgaacctc gtaaaactcca taccctgacc A ccctgtttt ggtatatacc aggtagaaca actctctc actgtctgtt gtgaggtac gctgtagccc actcataaag tacattctcc taataaagc ttgtgactga tcacctgccc agtcttttgt cttgggcaat ctatacttt ctgagaggt cccaaggcc actgaaggga cttaacatac tcttaatggc tttcctctct cttgttttac cttatgcct cacttctga gttaacctcc caaatacagg atcacctgta cccaaggccct tagctcaaga atacaggatc	Homo sapiens
441	57180	Leukotriene B4 Receptor BLTR2	NM_019839		Homo sapiens

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444	73584	Cadherin EGF NP_055061.1 LAG Seven- Pass G-Type Receptor 1 (CELSRI/Flam ingo)	cagtgccgac ccgtggctgg cagcccgggc agtcctttgc aaagcaacc cttgtcttaa aatcacttcg ctatgtggga aaggtggaga tacttttata tatttgtatg ggactctgag gagtgcaac ctgtatatat attgcattcg tgcgtacttt gttatccga gagatccatg caatgatctc ttgctgtctt ctctgtcaag attgcacagt tgcacttgaa tctggcatgt gttgacgaaa ctggtgcccc agcagatcaa aggtgggaaa tacgtcagca gtggggctaa aaccaagcg ctagaagccc tacagtgcc ttggcgagg aagtgagat ggtgtggcc ctcccgccg gccccctggg tccccagtg ttgctgtgtg tgcgtttgtc ctctgtgcc atctgcccc gctgtgtgaa ttcaagacag gcagtgagc cactagagag gtgtgaggag ccctgctgag gtcactgtgg ggcacgggtg ccacacggt gtcatttttc acctggtcat tctgtacca ccacccctc ccctcacgc ctccaggtg gccggggagc tgcaggtggg gatggctttg tcccttgctc ctgctcccc tgggacctgg gaccttaag cgttgcaagt tcctgatttg gacagaggtg tggggccttc caggccgtta catacctct gccaatctc taactctcg agactgcgag gatctccagg cagggttctc ccctctggag tctgaccaat tacttcaatt tgcttcaaat ggccaattgt gcagaggagc aaagccacag ccacactct caacggttac caaactgttt ttggaattc acaccaagt cgggccact gcaggcagct ggcacagcgt gcccgaggg gctgtggaac ggtgcccgga actgtcagac atgtttgatt ttagcgtttc ctttgtctt caaatcaggt gcccaataa gtgacgaca cagctgcttc caataggag aaaccataa ataggatgaa aatcaagtaa atgcaaaaga tgtccacact gttttaact tgacctgat gaaaatgta gcactgttag cagatgccta tgggagagga aaagcgtatc tgaatatggt ccaggacagg aggatgaat gagatcccag agtccctaca cctgaatgaa ttatacatgt gccctaccag gtgagtgttc ttctgaagat aaaaaactc agtcccttta aacgtttgac cctggcgttt cctaagtacg aaaaggtttt aaagtcttcg aacagtctcc tttcatgact ttaacaggat tctgccccct gaggtgtaat tttttgttc tattttttc cactgactcc acagccaaca tcacgaggtg taatttttaa ttgatcaga actgttacca aaaaacaact gtcagtttta ttgagatggg aaaaatgtaa acctatttt attacttaag actttatggg agagattaga cactggaggt ttttaacaga acgtgtattt attaatgttc aaacacactg aattacaaat gagaagagtc tacaataaat taagattttt gaattgtac ttctgctgtg ctggtttttc tccacaaca ccccgcccc tccccatgc caggtggccc gtggaagggg cggtttacgg acgtgcagct gagctgtccg tgtcccatgc tccctcagcc agtggaacgt gccggaactt ttgtccatt cctagtagg cctgccacag cctagatgg cagtttttgt cttcaccaa atttgagagc tttttttt tgccattatt tcttcagttt tctttcttg cactgatctt tctcctcc tctgtgact ccagtgactc agacgttaga cctctgatg ttttccact ggtccctgag gctctgttc PRELLVGRD VLLLLAAAA LPAMGLRAAA WEPVPGGTR AFALRPGCTY AVGAACTPRA P CGTGARLCA ICFFVPGGCA AAQHSALAAP TTLPSACRPP RPRPCPGRP ICLPPGGSVR LRLCALRAA GAVRVPGLAL EAATAGTSPA SPSPSPPLPP NLPEARAGPA RRARRGTSGR GSLKFPMPNY QVALFENEPA GTLILQLHAH YTIEGEEERV SYMEGLFDE RSRGYFRIDS ATGAVSTDV LDRETKETHV LRVKADYST PPSATTYIT VLKDTNDHS PVFEQSEYRE RVRENLEVG EVLTIRASDR DSPINANLRY RVLGAWDFV QLNESGGVVS TRAVLDREEA AEYQLLVEAN DQGRNPGLS ATATVYIEVE DENDNYPQFS EQNYVQVPE DVGLNTAVLR	Homo sapiens
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VQATDRDQGQ NAAIHYSILS GNVAGQFYLH SLSGILDVIN PLDFEDVQKY SLSIKAQDGG
RPPLINSSGV VSVQVLDVND NEPIFVSSPF QATVLENVPL GYPVWHIQAV DADSGENARL
HYRLVDAST FLGGGSAGPK NPAPTDPDFP QIHNSSGWIT VCAELDREVE EHSYFGVEAV
DHGSPNMSSS TSVSITVLDV NDNDPVFTQP TYELRLNEDA AVSSVLTIQ ARDRDANSVI
TYQLTGGNTR NREALSQRG GGLITLALPL DYKQEQQVVL AVTASDGTRS HTAHVLINVT
DANTHRPVFQ SSHYTVSVSE DRPVGTSIAT LSANDEDGE NARITYVIQD PVPQFRIDPD
SGTMYTMEL DYENQVAYTL TIMAQDNIGP QSDTTTLEI LILDANDNAP QFLWDFYQGS
IFEDAPESTS ILQVSATDRD SGPNGRLLYT FQGGDDGDGD FYIEPTSGVI RTQRRLDREN
VAVYNLWALA VDRGSPTPLS ASVEIQVTIL DINDNAPFE KDELELFVEE NNPVGSVVAK
IRANDPDEGP NAQIMYQIVE GDMRHHFQLD LLNGDLRAV ELDFEVRREY VLVQATSAP
LVSRATVHIL LVDQNDNPPV LPDFQILENN YVTNKSNSFP TGVICIPAH DPNVSDSLNY
TFVQGNELRL LLLDPATGEL QLSRDLNDR PLEALMEVSU SDGIHSVTAF CTLRVTIITD
DMLTNSITVR LENMSQEKFL SPLALFVEG VAAVLSTTKD DVFVFNQND TDVSSNINLV
TFSALLPGGV RGQFFSEDL QEIQYLNRTL LTTISTQRVL PFDDNICLRE PCENYMKCVS
VLRFDSAPF LSSTTVLFRP IHPINGLRCR CPPGFTGDYC ETEIDLCTSD PCGANGRCRS
REGGYTCECF EDTGEHCEV DARSGRGANG VCKNGGTGVN LLIGGFHCVC PPGEYERPYC
EVTTRSFPFQ SFVTFRGLRQ REHTTISLTF ATQERNGLLL YNGRFNEKHD FIALEIVDEQ
VQLTFSAGET TTTVAPKVP S GVSDDRWHVS QVQYYNKPNL GHGLPHGPS GEKMAVTVTD
DCDTHMAVRF GKDIGNYSKA AQGTQTSKK SLDLTGPLLL GGVNLPEDF PVHNRQFVGC
MRNLSVDGKN VDMAGFIANN GTREGCAARR NFCDGRRQCN GGTCVNRWNN YLCECPLRFG
GKNCQAMPH PQLFSGESV SWSDLNIIIS VPWYGLMFR TRKEDSVLME ATSGGPTSR
LQILNNYLOF EVSHGPSDE SVMLSGLRVT DGEWHLLIE LKNVKEDSEM KHLVTMTLDY
GMDQNRADIG GMLPGLTVRS VVVGASDEK VSVRRGFRGC MQGVRMGSTP TNVATLNNN
ALKVRVKDGC DVDDPCTSSP CPPNSRCHDA WEDYSCVCDK GYLGINCVDA CHLNPCENMG
ACVRSPPSPQ GYVCEGSPH YGPYCNENKLD LPCPRGWWGN PVCGPCHAV SKGFDPDCNK
TNGQCQCKEN YKLLAQDTC LPCDCFFHGS HSRTCMTATG QCAKPGVIG RQCNRCNPF
AEVTTLGCEV IYNGCPKAFE AGIWWPQTKF GQPAAVPCPK GSVGNAVRHC SGEKGLPPE
LFNCTTISFV DLRAMNEKLS RNETQVDGAR ALQLVRALRS ATQHTGTLEG NDVRTAYQLL
GHVLQHSWQ QGFDLAATQD ADEHEDVIHS GSALLAPATR AAWEQIQRSE GGTAQLLRL
EGYFSNVARN VRRTYLRPFV IVTANMILAV DIFDKENFTG ARVPREDTTH EEFPRELESS
VSFPADFFRP PEEKEGPLL R PAGRRTPQT TRPGPGTGRE APISRRRRHP DDAGQFAVAL
VIITYRTLGQL LPERYDPRR SLRPLPHRII NTPMVSTLVY SEGAPLPRPL ERPLVFEFAL
LEVEERTKV CVFWNHSILV GGTGWSARG CELLSRNTH VACQCSHTAS FAVLMDISRR
ENGEVLPLKI VTYAAVSLSL AALLVAFVLL SLVRMLRSNL HSIHKLAVA LFLSQLFEVI
GINQENPFL CTVAAILLHY IYMSTFAWTL VESLHVYRML TEVRNIDTGP MRFYVVGWG
IPAIVTGLAV GLDPQYGNP DFCWLSLQDT LIWSFAGPIG AVIINTVTS VLSAKVSCQR
KHYYGKKGI VSLLRATFLL LLLISATWLL GLLAVNRDAL SFHYLFAIFS GLQGPVLLF
HCVLNQEVK HLGKVLGGRK LHLEDSATTR ATLLTRSLNC NTTFGDGPDM LRTDLGESTA
SLDSIVRDEG IQKLGVSGL VRGSHGEPDA SLMPRSCKDP PGHSDSDSE LSLDEQSSSY
ASSHSDSED DGVGAEEKWD PARGAVHSTP KGDAVANHVP AGWPDQSLAE SDEDPGKPK
RLKVETKVSU ELHREEQGS RGEYPPDQES GGAARLASSQ PPEQRKGILK NKVTYPPPLT

445	74514	5-HT5A Receptor	NM_024012	<p> LTEQTLKGRLL REKLADCEQS PTSSRTSSLG SGGPDCAITV KSPGREPRGRD HLNQVAMNVR TGSQAQDGSD SEKP atggtatttac cagtgaacct aactctcttt tctctctcca cccctctccc ttgtgagacc A aaccacagcc tggcacaaga cgactcgcg cccagctcgc cctgtctctc ggtcttcgga gtgcttattc tcacctgtct gggctttctg gtggcgcgga cgttcgcctg gaacctgctg tggctggcga ccactctcgc tgtacgcacc ttcacgcgcg tgccccacaa cctggtggca tccatggccg tctcggtatgt cctggtggcc ggcgtggtca tgcgctgag cctggtgcat gactgtccg ggcgcgcgtg cgactaggt cggaggtgt cccagctttg gacgcgtgc gactgtcttt gctgcacggc cagcatctgg aacgtgacgg ccatagcctt ggaccgctac tggccatca cgcgcacat ggaatacacg ctccgaccc gcaagtgcgt ctccaaagtc atgacgcgc tcaactgggc actctcgcgt gtcattctc tggcccgct gcttttggc tggggagaga cgtactctga gggcagcgag gactgccagg taagcccgga gccttctac gccgtgtct ccaccgtagg cgccttctac ctgcgcctct gtgtggtgct ctctgtgtac tggagatct acaaggctgc caagtccgc gtgggtccca ggaagaccaa tagcgtctca cccatatccg aagctgtgga ggtgaaggac tctgcaaac agcccgagat ggtgttcacg gtcgcgcacg ccacggtcac ctccagcca gaaggcgga cgtggcgga gcagaagag cagcgggcg ccctcatggt gggcattctc attggcgtgt cgtgctctg ctggatcccc ttcttctca cggagctcat cagtcctcct tgcctctgtg acatcccg cacttgga agcatcttc tgtggttg ctactccaac tctctctta accctctgat ctatacgct ttcacaaga actacaacag cgcctcaag aactcttctt ctaggcaaca ctga MDLPVNLTSF SLTSPLET SHSLGKDDL ALVMPILSVH ELSGRRWQLG VRLCQLTIAC P VLATILVRT FHRVPHNLVA SMAVSDVIVA LTRKCVSNV MIALTWALSA VISLAPLIFG DVLCTASIW NVTAIALDRY WSITRMEYT LRVKCVSNV MIALTWALSA VISLAPLIFG WGETYSEGSE ECQVSREPSY AVFSTVGAFY LPLCVLVFVY WKIYKAKFR VGSRTNSVS PISEAVEVKD SAKQPMVFT VRHATVTFQP EGDTRWQKE QRAALMVGIL IGVFVLCWIP FFLTELISPL CSCDIPAIWK SIFLWLGYSN SFENPLIYA FNKNYNSAFK NFFSRQH gtaatgcaga gataataaaa cttcttaggt ccatagctt tataataatt taataaccta A aacatggtat acaattctc ccaacccaa taacataatt atagttcaa aaagtctccc aaactttcaa gttagatttt attgctttga tgagtgtctt taaatatgaa aagtcttgcc tgtgaaggcc aatccttttc ccgtggactg gactctatag aaatacagaa atgtgcccag gggttcatct cctaataaac catcattcac attctcaac ctccctaata accagccacc atgtgagaag gatccacagt tactgtttat gactataatt aactagtaac tgggactggt cagtggagtt ggttgcaacc tgatgctaag gatgtcaaa gtgtctggc ctctgttccc agccagtaag taattccctg gcctcgcc ataccctta atcttggtca cctgattatg acaggcagac agcacagtaa ataactat atattaagaa acccaaacg atatgtatca atggtatata ccaacagca tcttagaat ggagagctct tagcaaggc ctccaatgtg aaggtcaaca cagtcatgt gatgcgtga ttctcattt gtaaaagcatg atctctggtg gtcattttta tcttcctaac ttattgaaa agtctctgt ttgggggccc cgccctggtg cacagccaga ctgactcagt ttcctggga ggtcccgctc gagccgctc tccccctcc tctgcccgc cccagccctc gcccacct cggcgccgc acatctgct gctcagctcc agacggcgc cggaccccc ggcgcgggat ccagcccggt ggagccccg cagatgaggt </p>	Homo sapiens
446	74514	5-HT5A Receptor	NP_076917.1	<p> MDLPVNLTSF SLTSPLET SHSLGKDDL ALVMPILSVH ELSGRRWQLG VRLCQLTIAC P VLATILVRT FHRVPHNLVA SMAVSDVIVA LTRKCVSNV MIALTWALSA VISLAPLIFG DVLCTASIW NVTAIALDRY WSITRMEYT LRVKCVSNV MIALTWALSA VISLAPLIFG WGETYSEGSE ECQVSREPSY AVFSTVGAFY LPLCVLVFVY WKIYKAKFR VGSRTNSVS PISEAVEVKD SAKQPMVFT VRHATVTFQP EGDTRWQKE QRAALMVGIL IGVFVLCWIP FFLTELISPL CSCDIPAIWK SIFLWLGYSN SFENPLIYA FNKNYNSAFK NFFSRQH gtaatgcaga gataataaaa cttcttaggt ccatagctt tataataatt taataaccta A aacatggtat acaattctc ccaacccaa taacataatt atagttcaa aaagtctccc aaactttcaa gttagatttt attgctttga tgagtgtctt taaatatgaa aagtcttgcc tgtgaaggcc aatccttttc ccgtggactg gactctatag aaatacagaa atgtgcccag gggttcatct cctaataaac catcattcac attctcaac ctccctaata accagccacc atgtgagaag gatccacagt tactgtttat gactataatt aactagtaac tgggactggt cagtggagtt ggttgcaacc tgatgctaag gatgtcaaa gtgtctggc ctctgttccc agccagtaag taattccctg gcctcgcc ataccctta atcttggtca cctgattatg acaggcagac agcacagtaa ataactat atattaagaa acccaaacg atatgtatca atggtatata ccaacagca tcttagaat ggagagctct tagcaaggc ctccaatgtg aaggtcaaca cagtcatgt gatgcgtga ttctcattt gtaaaagcatg atctctggtg gtcattttta tcttcctaac ttattgaaa agtctctgt ttgggggccc cgccctggtg cacagccaga ctgactcagt ttcctggga ggtcccgctc gagccgctc tccccctcc tctgcccgc cccagccctc gcccacct cggcgccgc acatctgct gctcagctcc agacggcgc cggaccccc ggcgcgggat ccagcccggt ggagccccg cagatgaggt </p>	Homo sapiens
447	81765	Thromboxane A2 Receptor	NM_001060	<p> gtaatgcaga gataataaaa cttcttaggt ccatagctt tataataatt taataaccta A aacatggtat acaattctc ccaacccaa taacataatt atagttcaa aaagtctccc aaactttcaa gttagatttt attgctttga tgagtgtctt taaatatgaa aagtcttgcc tgtgaaggcc aatccttttc ccgtggactg gactctatag aaatacagaa atgtgcccag gggttcatct cctaataaac catcattcac attctcaac ctccctaata accagccacc atgtgagaag gatccacagt tactgtttat gactataatt aactagtaac tgggactggt cagtggagtt ggttgcaacc tgatgctaag gatgtcaaa gtgtctggc ctctgttccc agccagtaag taattccctg gcctcgcc ataccctta atcttggtca cctgattatg acaggcagac agcacagtaa ataactat atattaagaa acccaaacg atatgtatca atggtatata ccaacagca tcttagaat ggagagctct tagcaaggc ctccaatgtg aaggtcaaca cagtcatgt gatgcgtga ttctcattt gtaaaagcatg atctctggtg gtcattttta tcttcctaac ttattgaaa agtctctgt ttgggggccc cgccctggtg cacagccaga ctgactcagt ttcctggga ggtcccgctc gagccgctc tccccctcc tctgcccgc cccagccctc gcccacct cggcgccgc acatctgct gctcagctcc agacggcgc cggaccccc ggcgcgggat ccagcccggt ggagccccg cagatgaggt </p>	Homo sapiens

448	81765	Thromboxane A2 Receptor	NP_001051.1	<p> ctctgaaggt gtgctgaac cagtccagc ctgcccgtc tgcagcatcg gcctgatggg gtggtgactg atccctcagg gctccggagc catgtggccc aacggcagtt ccctggggcc ctgtttccgg ccacaaaca ttaccctgga ggagagacgg ctgacgcct cgcctgggtt cgccgctcc ttctgctgg tgggcttggc ctccaaactg ctggccctga gctgctggc ggcgcgcg cgagggggtt cgcacacgg ctcctccttc ctcaccttc tctggcct cgtctcacc gacttctgg gctgctggt gaccggfacc atcgtggtg cccagcacgc cgctcttc gagtggcac cgtgggacc tggctgcgt gctgtgcgt ccatgggct cgtcatgac ttcttcggc tgtcccgct gctgctggg gccgcatgg cctcagacg ctacctgggt atcacccgc cttctcgcg ccggcggtc gcctgcagc gccgcccgt ggccaccgt gggctggtg gggcgccgc gctggcgctg gccctgctgc ccctgctgg cgtgggtgc tacacgtgc aataccggg gtccgtgtgc tctcgaacg tggcgccga gtccggggac gtggccttc gctgctctt ctcacatgct ggcgccctc cgtcggct gtccttctg ctgaacacgg tcagcgtgc caccctgtc cactctacc acgggcagga ggcgcccg cagctcccc gggactccga ggtggagatg atggctcagc tccggggat catgtgtg gctggtggtg gctggtgctt ccttctgtc ttcattggc agacagtgt gcgaacccg cctgcccata gcccgcgg gcagctgtc cgcaccacgg agaaggact gtcctctac ttgcgctgg ccacctgaa ccagatctgc gaccctggg tgtatctct gtccgcgc gccgtgctc ggcgtctca gctcgcctc agcaccggc ccaggctcgt gtccctccag cccagctca cgcagctc cgggctgag taggaagtgg acagagcgc cctccgcgc cttccgcgg agcccttgg cctcggaca gccatctgc ctgttctgag gattcagggg ctgggggtgc tggatggaca gtggcgatca gcagcaggt ttggggtga cccaatcca accggggac ccccaatcc tccctgctc tttaccag cactctcct tcctggccc ctttttccc tccagagctc ccacccctc tctgctccc tcccaacccc aggaaggga tgcagacatt ggaagaggt cttgcatgct tatttttt tttagacgga gtctgtct gtcccccagg ctggagtga gtggcgcaat ctcagctcac tgaacctcc acctccgg ttcaaagcat tctcctgct cagctcctg agtagctgg actatagcg cgccaccac cgccggcta attttgtat ttttagtaga gacggggtt caccgtgtg gccaggtgg tcttgactc ctgacctcag gtgattacc agctcagc tcccaagt ctggatcac aggcataac caccacct ggcattttt tttttttt tagacggagt ctcactctgt ggcccagct ggaatacagt ggcacgatc cggctcact caacctccg ctccgggt caagcgattc tctgctcaca gctcccgag cagctgggt tacaggcga agccactgc cccggcctg catgctctt gacctgaat ttgacctact tctggggta cagttgctt ctttgaacc tccaaacagg aagctctgt ccagaaagg ttgaatgta aacgggggca cccctttt ttgcaaaa atactctgc ctttggttt at </p>	Homo sapiens
				<p> SSFLTFLCGL VLTDFLGLV TGTIVSQHA ALFEHVAAP AAFSCVVGLA SNLLALSVA GARQGSHTR P LLGAAMASER YLGITREFSR PAVASQRRAW ATVGLVWAA LALGLLPLLG VGRYTVQYPG SWCFLTIGAE SGDVAFGILF SMLGGLSVGL SFLLNTVSA TLCHVYHGE AAQRPRDSE VENMAQLGI MVVASVCWLP LLVFIAQTVL RNPAMSPAG QLSRTTEKEL LIYLRVATWN QILDWPVYIL FRAVLRLQ PRLSTRPSL SLQQLTQRS GLQ </p>	

449	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	(C NM_005283	atggagtctt caggcaacc agagagcacc accctttttt actatgacct tcagagccag A ccgtgtgaga accaggcctg ggtctttgtt accctcgcca ccactgtcct gtactgcctg gtgtttctcc tcagcctagt gggaacagc ctggtctctg gggtcctggt gaagtatgag agcctggagt ccttcacaa catcttcac ctcaacctgt gccttcaga cctggtgttc gcctgcttgt tgcctgtgtg gatctcccca taccactggg gctgggtgct ggagacttc ctctgcaaac tctcaatat gatcttctcc atcagcctct acagcagcat cttcttcctg accatcatga ccatccaccg ctacctctcg gtatgagcg cctctccac cctgcgcgtc cccaccctcc gctgcgggtt gctggtgacc atggtctggt ggttagccag catcctgtcc tccatcctcg acaccatctt ccacaaggtg ctttcttcgg gctgtgatta ttccgaactc acgtgttacc tcacctcctg ctaccagcac aacctcttct tctgtctgc cctggggatt atcctgttct gctacgtgga gactcctcagg acctgttct gctcagctc caagcggcg cacgcgcagg tcaagctcat cttcgccatc gtggtggcct acttctcag ctggggtccc tacaacttca ccctgtttct gcagacgtg ttctggacc agatcatcg gagctgcgag gcaaacagc agttagaata cgccctgctc atctgcgca acctgcctt ctcccactgc tgctttaacc cggtgctcta tgtcttcgtg ggggtcaagt tccgcacaca cctgaaacat gtctccggc agttcctggt ctgcggcgtg caggcaccca gccagcctc gatccccac tccctcgtg ccttcgcta tgaggcgcc tcttctact ga	Homo sapiens
450	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	(C NP_005274.1	VFLLSLVGNS LVLMVLVKE P SLESNTNIFI LNCLSDLVF ACLLPWNISP YHWGWLGD LCKLLNMIFS ISLYSSIFFL TIMTIHRYLS VVSPLSTLRV PTLRCRVLVT MAVWVASIIS SILDITIFHKV LSSGCDYSEL TWYLTSVYQH LFQVVEILR ILFCYVEILR TLFERSKRHR HRTVKLIFAI VVAYFLSWG P YNFTLFQLTL FRTQIIRSCE AKQOLEYALL ICRNLAFSHC CFNPVLYFV GVKFRTHLKH VLRQFWFCRL QAPSPASIPH SPGAFAYEGA SFY	Homo sapiens
451	130108	G Protein-Coupled Receptor GPR75	(NM_006794	gcgatggcga tgaatcctct agtctctgcat catccagagc ggagggcag ctggggctcg A gactgcgaga tggaggagggt gcgcgtcgtg gcaccggca ggcttatctg tcttgggcct ctttgtcac atattgctca tctgtgagct gaggccctga ctcactgagt atttttgggg agcagaagaa ggagacattt ctctccgaaa atgaactcaa caggccacct tcaggatgcc cccaatgcca cctcgtcca tgtgcctcac tcacaggag gaaacagcac ctctctccag gagggtcttc agtatctcat ccacacagc accttggtga cctgtacttt tctactggcg gtcatcttct gcctgggttc ctatggcaac ttcatgtgtt tcttgcctt ctctgatcca gccttcagga aattcagaac caactttgat ttcatgatcc tgaacctgtc ctctgtgac ctcttcattt gtggagtgc agcccccatg ttacaccttg tgttattctt cagctcagcc agtagtatcc cggatgcttt ctgcttcaat ttccatctca ccagttcagg ctctcatcat atgtctctga agacagtggc agtgatcgcc ctgcaccggc tccggatggt gtggggaaa cagcctaata gcacggcctc ctttccctgc accgtactcc tcacctgct tctctgggcc accagtttca ccttggccac cttggctaac ttgaaaaaca gcaagtccca cctctgtctt cccatgtcca gtctgattgc tggaaaaggg aaagccattt tgtctctcta tgtggtcgac ttcaccttct gtgtgtgtgt ggtctctgtc tctacatca tgattgtcga gacctcgcg aagaacgctc aagtcagaaa gtgccccctt gtaatacagc tcatgtctc cagaccacag cctttcatgg ggtcctctgt gcaggaggtt ggagatccca tccagtgtgc catgccggct ctgtatagga accagaatta caacaaactg cagcacgttc agaccgttg atataccaag	Homo sapiens

452	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	<p> agtcccaacc aactggtcac cctgcagca agcgcactcc agtcgtatc agccatcaac ctctccactg ccaaggattc caaagccgtg gtcacctgtg tgatcattgt gctgtcagtc ctgggtgtgt gtctccact ggggatttcc ttgttacagg ttgttctctc cagcaatggg agcttcact ttataccagt ttgaattgtt ggattactc ttatatattt cacttcagga ttaaacctt ttatatattc tcggaacagt gcagggtctga gaaggaaagt gctctgggtg ctccaataca taggcctggg tttttctgc tgcaacaaa agactcgact tcgagccatg ggaagaaggga acctgaagt caacagaaac aaactctccc atcatgaaac aaactctgcc tacatgttat ctccaaagcc acagaagaaa ttgtggacc aggtttgtgg cccaagtcat tcaaaagaaa gtatggtgag tcccaagatc tctgtggac atcaacactg tggtcagagc agctcgacc ccatacacac tcggtattgaa ccttactaca gcattctata cagcagccct tccagaggg agcagagccc atgtaactta cagccagtaa acctttttg atttgccaat tcatatattg ccatgcatta tcacaccact aatgacttag tgcaggaata tgacagcact tcagccaagc agattccagt cccctccgtt taaagtcagt gaggctatag gatcttatgt aaacagtttt tgtttctgat agtaatggac ttbattctaa ctbgagatca gtggcgggac aaaacctaca agattcaact gaaaagtggc cagttatggt tttcttccat ctgatgtgtc agtatctgtt gatttgctt tagtttgtt gacatcttaa gattgatgt gaaagtttta gatttttac cctg </p>	Homo sapiens
453	133117	G Protein-Coupled Receptor RAIG1	NM_003979	<p> ataacagcat gaagtgcgt ggaactggaa tagcgtgtc ctctccctc accctcccc A tccttgccc tctgtcacc cctgcctcgt tccctccctc cggcagaggc cgcctttata acaactgtc agagtggag ggcgggagat ctgtccaaag tctccccag cactgaggag ctgcctgtc gccctcttc gcgcgggaag cagcaccag ttcaacggca acgccttggc actagggtcc agaattgcta caacagtcct tgatggttgc cgaatggcc tgaatccaa gtactacaga ctttgtgata aggcctgaag ttggggcctc gtccatagaa cgggtggccac agccgggggt gtgacctcgg tggccttcct gctacctc cgcactctc tctgcaaggt gcaggactcc aacaggcgaa aaatgctgcc tactcagttt ctctctctc tgggtgtgtt gggcatctt ggcctcacct tcgccttcct catcggaact gacgggagca caggggcccac acgctcttc ctctttggga tcctctttc catctgttc tctgcctgc tggctcatgc tgtcagtcct accaagctcg tcggggggag gaagccccct tccctgttgg tgattctggg tctggccgtg ggcctcagcc tagtcacaga tggatcgtt attgaatata ttgtcttgac catgaatagg accaagctca atgtctttc ttgagtttcc gctcctctc gcaatgaaga ctttgtctc ctgctcacct acgtctctt ctgatggcg ctgacctcc tcatgtctc cttcacctc tgtggttctc tcacgggctg gaagagacat gggggccaca tctacctcac </p>	Homo sapiens

454	133117 G Protein- Coupled Receptor RAIG1	NP_003970.1	gatgctcctc tccattgcca tctgggtggc ctggatcacc ctgctcatgc ttcctgactt tgaccgagg tgggatgaca ccattcctcag ctccgcttg gctgccaatg gctgggtgtt cctgttggct tatgttagtc ccgagttttg gctgctcaca aagcaacgaa accccatgga ttatcctgtt gaggatgctt tctgtaaacc tcaactgctg aagaagact atggtgtgga gaacagagcc tactctcaag aggaatcac tcaaggtttt gaagagacag gggacacgct ctatgcccc tattecacac attttagct gcagaacag cctcccaaa aggaattctc catccacagg gccacgctt ggcgagccc ttacaagac tatgaagtaa agaaagaggg cagctaaactc tctcctgaag agtgggacaa atgcagccgg gcgagatc tactacggagc tcaagggat gtggcgaaa tcttgagtct tctgagaaa ctgtacaaga tagcggggagc acagtttgc tccctccag cctcaaccac aattctcca tctgtggct gatgtggct agtaagactc cagttcttag aggcgtgta gtatttttt tttttgtct catcctttgg atacttcttt taagtggag tctcaggcaa ctcaagtta gaccttact cttttgttt gtttttgaa acaggatctt gctctgtcac ccaggcttga gtgcagtgtt gcgatacacg cccagtgag cctgcaccac ctgtgtcaa gcaatcctcc catctccatc tccaaagt ctgggatgac aggcgtgagc cacagctccc agcctaggct cttaactctg ctgttatttt ccatggacta aaggtctggt catctgagct cagctggct cacacagctc taggggcctg ctccttaac tcacagtgg tttgtgagg ctctgtggcc cagagcagac ctgcatact gagcaaaaat agcaaaagcc tctctcagcc cactggcctg aatctacat ggaagccaac ttgctggcac ccccgctccc caaccttct tgcctggga ggagaggcta aagatcaccc taaatctact catctctcta gtctgctc acattggcc cactgagctc ccagcacca attacaggt caccctctc tcttgact gtcccaaac ttgctgtcaa ttcgagatc taatctcccc ctacgctctg ccaggaattc tttagacct cactagcaca agcccggtt ctccttgtca ggagaattg tagatcattc tcacttcaa ttcctggggc tgatacttct ctcatcttg acccaacct ctgtaaatag attaccgca ttacggctg cattctgtaa gtgggcatgg tctcctaag tgtgtggcc actcttcat ggtggtgga gcaaaaaa aaaaa gcaataaaga tgtgtggcc cdkaewgltv letvatagv tsvafmltlp ilvckvqdsn p RRKMLPTQFL FLLGLGIFG LTFATIIIGD GSTGPTREFL FGILFICFS CLLAHAVSLT KLVRGRKPLS LLVILGLAVG FSLVQDVIAI EYIVLTWNT NVNVESELSA PRNEDFVLL LTYVLFMAL TFLMSSFTFC GSFTGKRRHG AHYLTMLLS IAIWVAWITL LMLPDEFDRRW DDTILSSALA ANGWFLIAY VSPEFWLITK QRNPMDYPVE DAFCKPQLVK KSYGVENRAY SQEITQCFE ETGDTLYAPY STHFQLONQP PQKEFSIPRA HAWPSYKDY EVKKEGS atgggacct gtgacattgt gactgaagcc aatatctcat ctggccctga gagcaacacc A acgggcatca cagccttctc catgcccagc tggcagctgg cactgtggcc accagcctac ctggccctgg tgcgtgtggc cgtgacgggt aatgccatg tcactggat catcctggcc catcgaggga tgcgcacagt caccacatc ttcatgtca atctggcgt ggtgacctc tgcatggctg ccttcaatgc cgccttcaac ttgtctatg ccagccaca catctggtac tttgccctg ccttctgcta ctccagaac ctctccca tccagccat gttgtcagc atctactcca tgaccgcat tgcgtccgac aggtacatgg ccctgtcca cccctccag cctcgcttt cagctccag caccagggc gttattgctg gcactggct ggtggtctc gccctggcct cccctcagct ctctactcc accgtcacca tggaccaggg tggcaccag	Homo sapiens
455	152198 Tachykinin Receptor 2	NM_001057		Homo sapiens

456	152198	Tachykinin Receptor 2	NP_001048.1	<p>tgctgtggtgg cctggcccgag agacagcggg ggcaagacgc tcctcctgta ccacctcgtg gtgatcgccc tcattactt cctgcgcctc gcggtgatgt ttgtagccta cagcgtcac ggcctcacgc tctggagggc cgcagtgccc ggacatcagg cgcacggtgc caacctccgc catctgcagg ccaagaagaa gtttgtgaag accatggtgc tgggtgtgct gacgtttgccc atctgtgtgc tgccttacca cctctacttc atcctgggca gcttccagga ggacatctac tgccacaagt tcattcacga agtctacctg gactacttct ggttgcccat gagctctacc atgtacaatc ccatacatca ctgctgtctc accatacagt ttcgctctgg gttccggctt gccttccgct gctgcccctg ggtcacaccc accaagaag ataaagctcga gctgactccc acgacctccc tctccacgag agtcaacagg tgtcacata aggagacttt gttcatggct ggggacacag cccctccga ggctaccagt ggggagggcg ggctcccca ggtgggatca gggctatggt ttgggtatgg ttgtcttgcc ccacacaaa ctcattgtga aattga MGTCDIVTEA NISSGPESNT TGITAFSMPs WQALWAPAY LALVLAVTG NAIVIWILA P HRRMRTVTNY FIVNLALADL CMAAFNAFN FVYASHNIWY FGRAFQYFQN LFPITAMFVS IYSMTAIAAD RYMAIVHPFQ PRLSAPSTKA VIAGIWLVAL ALASPQCFYS TVTMDQGATK CVVWPEPDSG KYTLILYHLV VIALIYFLPL VMFVAYSVI GLTLWRRVAP GHOAHGANLR HLQAKKKFKV TMVLVVLTFE ICWLPYHLYF ILGSFQEDIV CHKFIQQVYL ALFWLAMST MYNPIIYCCL NHRFRSGFRL AFRCCPWTP TKEDKLELTP TTSLSTRVNR CHTKETLFMA GDTAPSEATS GEAGRPQDGS GLWFGYGLLA PTKTHVEI</p>	Homo sapiens
457	152201	Thyrotropin Receptor	NM_000369	<p>ccgctccccg gtctctttt ggctggggt aaccgaggt gcagagctga gaatgagcg A atttcggagg atggagaaat agccccagat cccgtggaaa atgaggccgg cggacttgct gcagctgggt ctgctgctcg acctgcccag ggacctgggc ggaatggggt gttcgtctcc acctgcgag tgcctcagg aggagactt cagagtcacc tgcaaggata ttcaacgcat ccccagctta gcccacgta cgcagactct gaagcttatt gagactcacc tgagaactat tccaaagcat gcattttcta atctgcccga tatttcaga atctacgtat ctatagatgt gactctgcag cagctgggaat cacactcctt ctacaatttg agtaaaagtg ctcacataga aattcggaat accaggaact taacttacct agacctgat gccctcaaa agctccccct cctaaagttc cttggcattt tcaacactgg acttaaaatg ttccctgacc tgaccaaagt ttattccact gatattctt ttatacttg aattacagac aacctttaca tgacgtcaat ccctgtgaat gcttttcagg gactatgcaa tgaaaccttg acactgaagc tgtacaacaa tggttttact tcagtccaag gatagcttt caatgggaca agctggatg ctgtttacct aaacaagaat aaatacctga cagttattga caaagatgca ttggaggag tatacagtgg accaagcttg ctggacgtgt ctcaaacccag tgtcactgcc cttccatcca aaggcctgga gcacctgaag gaactgatag caagaaacac ctggactctt aagaaacttc cactttcctt gagtttctct cacctcacac gggctgacct ttcttaccga agccactgct gtgcttttaa gaatcagaag aaaaatcagag gaatccttga gtccttgatg tgtaatgaga gcagtatga gagcttgcgc cagagaaaaat ctgtggaatgc cttgaaatgc cccctccacc aggaatatga agagaatctg ggtgacagca ttgttgggta caaggaaaag tccaagttcc aggatactca taacaacgct cattattacg tcttctttga agaacaagag gatgagatca ttggttttgg ccaggagctc aaaaaccccc aggaagagac tctacaagct tttagacagc attatgacta caccatatgt ggggacagtg aagacatggt gtgtaccccc agtcccgatg agttcaaccc gtgtgaagac ataattgggt acaagtttct gagaatgtgt gtgtgggttg ttagtctgct</p>	Homo sapiens

458	152201	Thyrotropin Receptor	NP_000360.1	<p>ggctctcctg ggcaatgtct ttgtcctgct tattctctc accagccact aaaaactgaa cgccccgc tttctcatgt gcaacctggc ctttgcgat ttctgcatgg gtagtgacct gtctctcatc gcctctgtag acctctaac tcaactcag tactacaacc atgccatga ctggagaca ggccttgggt gcaaacaggc tggtttttc actgtctttg caagcagatt atcggtgtat acgctgacgg tcatcacct ggagcgtgg tatgccaatca ccttcgcca ggcctgggac cggaagatcc gcctcaggca ccatgtgct atcatgggtg gggcgtgggt ttgtgcttc cttctgccc tgcttcctt ggtgggaata agtagctatg ccaagtcag tatctgctg cccatggaca cggagaccc tctgtcctg gcatatattg ttttcttct gacgtcaac atagtgcct tcgtcatcgt ctgctgcgt catgtgaaga tctacatcac agtcgaaat ccgcagtaca acccaggga caaagatacc aaaattgcca agaggatggc tgtgtgatc ttcacgact tcataatgat ggcctcaatc tcaattctatg ctctgtcagc aattctgaac aagcctctca tcaactgttag caactcaaaa atcttgctgg tactcttcta tccacttaac tcctgtgcca atccattcct ctatgctatt ttcaccaagg ccttccagag ggatgtgtc atctactca gcaagtttgg catctgtaaa cgccaggctc aggcataccg ggggcagagg gtctctccaa agaacagcac tgatatattcag gttcaaaaagg ttaccacaga catgagggag ggtctccaca acatggaga tgcctatgaa ctgattgaaa actcccatct aaccctaaag aagcaaggcc aaatctcaga agagtatatg caaacgggtt tgtaagttaa cactacacta ctcaaatgg taggggaact tacaataata tagtttcttg aatatgcatt ccaatcccat</p>	Homo sapiens
459	152245	C-C Chemokine Receptor 2	NM_000548	<p>gagactgccc tgagacaagc cacaagctga acagagaaag tggattgaac aaggacgcat A ttccccagta catccacaac atgctgtcca catctcgttc tcggtttatc agaaatacca acgagagcgg tgaagaagtc accacctttt ttgattatga ttacggtgct cctgtgcata aatttgacgt gaagcaaat ggggcccacac tctctactcc gctctactg ctggtgttca tctttggttt tgtgggcaac atgctgtgctg tccctcatctt aataaactgc aaaaagctga agtgcctgac tgacatttac ctgctcaacc tggccatctc tgatctgctt ttcttatta ctctccatt gtgggctcac tctgtgcaaa atgagtgggt ctttgggaat gcaatgtgca aattattcac agggctgtat cacatcggtt attttggcgg aatcttcttc atcatcctcc tgacaatcga tagatacctg gctattgtcc atgctgtgtt tgccttaaaa gccaggacgg</p>	Homo sapiens

460	152245 C-C Chemokine Receptor 2	NP_000639.1	<p> tccaccttgg ggtggtgaca agtgtgatca cctggttggg ggtgtgtgtt gcttctgtcc caggaatcat ctttactaaa tgccagaaa aagattctgt ttatgtctgt ggccttatt ttccacgag atggaataat ttccacaaa taatgagaa cattttggg cgtgtcctgc cgctgtcat catgtcatc tgctactcg gaaacctgaa aacctgctt cgtgtcga acgagaagaa gaggcatagg gcagtggag tcatcttca catcatgatt gtttactttc tcttctggac tccctataac attgtcattc tctgaaacac cttccaggaa ttctcggcc tgagtactg tgaagcacc agtcaactgg accaagccac cgtgtgaca gagactctt ggatgactca ctgtgcatc aatcccatc tctatgctt cgttggggag aagttcagaa ggtatctctc ggtgttctt cgaaagcaca tcaccaagcg cttctgcaaa caatgtccag ttttctacag ggagacagt gatggagtga cttcaacaaa cagccttcc actggggagc aggaagtctc ggctggttta taaaacgagg agcagtttga ttgtgttta taaagggaga taacaatctg tatatacaa caaactcaa ggtttgttg aacaatagaa acctgtaaa caggtgcca ggaacctcag gctgtgtgt actaatcac actatgtcac ccaatgcata tccaacatgt gctcaggaa taatccagaa aaactgtgg tagagacttt gactctccag aaagtcac tcagtcctg aaaaatgctt cattacctg tgctaactct tttttcttag tcttcataat ttcttcaac aatctctgat tctgtcaatg tcttgaatc aaggccagc tggaggtgaa gaagagaatg tgacaggcac agatgaatgg gagtgaggga tagtggggtc agggctgaga ggagaaggag ggagacatga gcatggctga gcctggacaa agacaaagg gagcaagggt ctcacgcat cagccaggag atgatactgg tcttagccc catctgccac gtgtatttaa ccttgaagggt ttcaccaggt cagggagagt ttgggaactg caataacctg ggagtttbg tggagtcga atctatctt tgatctctt tgcatgaatg ccatgacata ttttgcctt attacagttt atctatgga cccatgcac atcatattga atcatatgaa atcatatgt ccattgttca gatgcttctt agccacatc cccctgtcta aaaaattcaga aaattttgt ttataaaga tgcattatct atgatatgt aatataatg tatgcaatat aaaaatttag MLVLIILINC KKLKCLTDIY ILLTIDRYL AIVHAVFALK ARTVTFGVVT SVITWLAVF ASVPGIIFTK HIGYFGGIFV GPYFPRGWN FHTIMRNILG LVLPLLMVI CYSGILKTL RCRNEKRRHR AVRVITIMI VYFLWTPYN IVILLNTFQE FFLSNCEST SQDQATQVT ETLMTHCCI NPIIYAFVGE KFRRYLSVFF RKHITKRECK QCPVFYRETV DGVSTINTPS TGEQEVSA CAGAAATCCT CAGGTCCAC AGAAATGAAC ACGTTTCTA AAATAAGTC AAGCCAGCT A GTCCTACCCC AAAGAAATC CTAGCAAGCA AAGTGGCTT CCTTCTGAG GCCCAGCCA GGTGTGTCCA ACCGTAGGAG CCACAGCTCA GAGATCAGAG TGACTTAACA GTTAGAGGGC ACTTGATGAG TAAGGTGAAA TAGGGAACCC AAGTCAGACG ACACCTCCCT TCTGAGTCCC AACCATGTCT ACATCTGGAG AAGAACAAGT AAGTCAAGG ATCACAGACT TGTGATTAGA GACTGCCAGG GTCCATATGA CCAAGCGGGG GTCCCAGGTG TGAAGCTGGG GTTGAGGATC CATTATCTGA ATTTTCCACT CTATGGATGA TCACCTTTAT TCTTTTCTT TTCTTGAATT TATTTCCATT TGTATTTCCT TAAATTCCTT GGTAGATCAC CTGTGAAAGC TTGCAACTGT CTGATAAGAA TAAAGGGGA AGGATTGAC TTACAGAG AGACTTCAGA AGGAGTCCTC TCTAGGAGCA AATTGGGGC AATCCAGTGG GAAGGAGGTG GAAGACTGCA CTTGAGCTGC GTTTGGACAA CAGGCACACA ATCTTTACTT ACTTTTCAGG CTGCTTTGAG GT </p>	Homo sapiens
461	152299 Interleukin-8 Receptor A	LG5459		Homo sapiens

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 ctgcccctag catagcctgc ctcaagctat gtgagctcac cagtcctcc ccaaatgctt
 tccatgagtt gcagtttttt cctagtctgt ttccctctt tggagaacag ggcctgtcg
 gtttgttcac tgtatgtcct tgggtgcctgg agcctactaa atgtcaata aataatgatc

463	152299 Interleukin-8 Receptor A	NP_000625.1	acaggaatga atgcatgctg aaaaagaccac tctttt	WIIAYALVF LLSLLGNSLV P	Homo sapiens
			MSNITDPQMW DEFDDNFTGM PPADEDYSPC MLETEITNKY	TLPIWAASKV NGWIFGFLC KVSLLKEVN	
			MLVILYSRVG RSVTDVYLLN LALADLLFAL HLKKEFVCLG	WGLSMNLSLP FFLFRQAYHP	
			FYSGILLAC ISVDYLAIV HATRTLQKR	FIVPLFWLF CYGFTLRLF	KAHMGQKHRA
			NNSSPVCYEV LGNDTAKWM VLRLPHTFG	QVIQESCERR NNIGRALDAT	EILGFLHSCL
			MRVIFAVVLI FLICWLPYNL VLLADTLMRT	SSSVNVSSNL	
			NPIIYAFIGQ NFRHGLKIL AMHGLYSKEF LARHRTSYT		
			cctggggcct cctcatggat gggtcaaacg tgacatcatt	tggtgttgag gaacccacga A	Homo sapiens
			acatctcaac tggcaggaac gcctcagtcg ggaatgcaca	tcggcaaatc cccatcgtgc	
			actgggtcat tatgagcatc tccccagtcg ggattgtga	gaatgggatt cctctctggt	
			tcctgtgctt ccgcatgaga agaaatccct tcactgtcta	catcaccac cgtctctatcg	
			cagacatctc actgctcttc tgtattttca tcttgtctat	cgactatgct ttagattatg	
			agctttcttc tggccattac tacacaattg tcacattatc	agtgaacttt cgtgttggt	
			acaacacggg cctctatctg ctgacggcca ttagtgtga	gaggtgcctg tcagtccttt	
			accccatctg gtaccgatgc catgccccca agtaccagtc	ggcattggtc tgtgcccttc	
			tgtgggctct ttcttgcttg gtgaccacca tggagtatgt	catgtgcac gacagagaag	
			aagagagtca ctctcggaat gactgcgag cagtcacatc	ctttatagcc atcctgagct	
			tcctgtgctt cagccctc atgctgtgtg ccagaccat	cttggtcgtg aagatccgga	
			agaacacgtg ggcttcccat tcttccaagc tttacatagt	catcatggtc accatcata	
			tattcctcat ctctgctatg cccatgagac tcctttacct	gctgtactat gattattggt	
			cgaccttgg gaacctacac cacatttccc tgctctctc	cacaatcac agtagcgcca	
			acctttcat ttaacttttt gtgggaagca gaattcaag	gagtccttaa	
			aagtgttct gaccaggct ttcaaatgag aaatgcacc	tcggcgccag aaagacaatt	
			gtaatacggg cacagttgag actgtcgtct aagaactgtg	agggaagtgt tggataaaaa	
			tggtggaaca caggtcattt ttagttgtg ctggaatat	gacttaagta tctcctaaat	
			gtgatacaga agaacaatctc atcccatatg catgagatac	taattaatga tgaaa	
			MDGSNVSFV VEEPTNISTG RNASVGNHR QIPVHWIM	SISPVGFVEN GILLWFLCFR P	Homo sapiens
			MRRNPFTVYI THLSIADISL LFCIFILSID YALDYELSSG	HYTIVITLSV TFLFGYNTGL	
			YLLTAISVER CLSVLYPIWY RCHRPKYQSA LVCALLWALS	CLVTTMEYVM CIDREESH	
			RNDCRAVIF IAILSFLVFT PLMLVSSIL VKIRKNTWA	SHSKLYIVI MVTIIFLIF	
			AMPMLLYLL YYEYWSFTGN LHHISLLFST INSSANPTIY	FFVGSSKKKR FKESLKVVLT	
			RAFKDEMQR RQKDNCTVT VETV		
			atgctgccg actggaagag ctctctgatc ctcatgggtt	acatcatcat cttctcact A	Homo sapiens
			ggcctccctg ccaacctctt ggcctgcgg gccttttgg	ggcggatccg ccagccccag	
			cctgcaacctg tgcacatcct cctgctgagc ctgacgctgg	ccgacctctt cctgctgctg	
			ctgctgccct tcaagatcat cgaggctgcg tcgaactcc	ctggtgacct gcccaaggtc	
			gtctgcccc tcacaggttt tggcttctac agcagcac	actgcagcac gtggtctctg	
			gcgggcatca gcatcgagcg ctacctggga gtggctttcc	ccgtgcagta caagctctcc	
			cgcgggctc tgtatggagt gattgcagct ctgggtggct	gggttatgtc ctttgggtcac	
			tgcacctcg tgatcatcgt tcaatacttg aacacgactg	agcaggtcag aagtggcaat	
464	158822 Mas Proto-Oncogene	NM_002377			
465	158822 Mas Proto-Oncogene	NP_002368.1			
466	159152 G Protein-Coupled Receptor GPR43	NM_005306			

467	159152 G Protein-Coupled Receptor GPR43	NP_005297.1	<p>gaaattacct gctacagaaa cttaccgat aaccagtgg acgtgtgtg cccgtgctg</p> <p>ctggagctgt gctgtgtgct cttcttcac cccatggcag tcaccatctt ctgctactgg</p> <p>cgttttgtgt ggatcatgct ctcacagccc cttgtggggg cccagagggc gcgcagagcc</p> <p>gtggggctgg ctgtgtgtgac gctgtctaat tctctgtgtg gcttcggacc ttacaacgtg</p> <p>tcceacctgg tggggtatca ccagagaaaa agcccctggg ggcggtcaat agccgtgtgtg</p> <p>ttcagttcac tcaacgccag tctggacccc cttctcttct attctcttc ttcagttgtg</p> <p>cgcagggcat ttggagaggg gctgcaggtg ctgcggaatc agggctcctc cctgttggga</p> <p>cgacagggca aagacacagc agaggggaca aatgaggaca ggggtgtggg tcaagagaaa</p> <p>gggatgccaa gtctggactt cactacagag tag</p> <p>MLPDKSSLI LMYIIIFLT GLPANLLALR AFVGRIRQPQ PAPVHILLS LTLADLLLL P</p> <p>LLPFKIIIEA SNFRWLPKV VCALTSFGFY SSIYCSWILL AGISIERYLK VAFPVQYKLS</p> <p>RRPLYGVIAA LVAWVMSFGH CTIVIIVQYL NTTEQVRSNG EITCYENFTD NQLDVVLPVR</p> <p>LELCVLFFI PMAVTIFCYW RFVWIMLSQP LVGAQRARRA VGLAVVTLLN FLVCFGPYNV</p> <p>SHLVGYHQRK SPWRSIAV FSSLNASLDP LLFYFSSVV RRAFGRGLQV LRNQSSLLG</p> <p>RRGKDTAEGT NEDRGVQGE GMPSSDFTTE</p>	Homo sapiens
468	159973 Vasoactive Intestinal Polypeptide Receptor 1	NM_004624	<p>ggccacaggc cagcgccact ctgccaggct cccggccatc gcccgcctgg tgcgcgcgcc A</p> <p>gccagctctt tgcgcgcgcg gggccgcgcg cgcgggctc agggcagacc atgcgcgcgc</p> <p>caagtccgct gccgcgcgcg tggctatgct tgcctggcagg cgcctcgcc tgggcccctg</p> <p>ggccggcggg cggccagggc gccagctgc aggagagtg tgaactatgt cagatgatcg</p> <p>agggtcagca caagcagtgct ctggagagg cccagctgga gaatgagaca ataggctgca</p> <p>gcaagatgtg ggacaacctc acctgctggc cagcgcgcc cggggggcagg gtagttgtct</p> <p>tggcctgtcc cctcatcttc aagctcttct cctccattca agccgcaat gtaagccgca</p> <p>gctgcaccga cgaaggctgg acgcacctgg agcctggccc gtaccccat cctgtgtggt</p> <p>tggatgacaa ggcagcgagt ttggatgagc agcagacct gtctacggg tctgtgaaga</p> <p>ccggctacac cattgggtac ggctgtctcc tgcgccctt tctgtgtgccc acagctatcc</p> <p>tgagcctgtt caggaagctc cactgcacgc ggaactacat ccacatgcac ctcttcatat</p> <p>ccttcacctt gagggtgccc gctgtcttca tcaaaactt ggccctcttc gacagcgggg</p> <p>agtcggacca gtgtcccgag ggctcgtgtg gctgtgaagg agccatggtc ttttccaat</p> <p>attgtgtcat ggtaacttc ttctgtgtgc tggtagaggg cctctacctg tacacctgc</p> <p>ttgccgtctc cttctctctt gagcggaggt acttcgggg gtacatactc atcggctggg</p> <p>gggtacccag cacattcacc atggtgtgga ccatcgccag gatccatttt gaggattatg</p> <p>ggtgtgtgga caccatcaac tctcactgt ggtggatcat aaagggcccc atctcactt</p> <p>ccattttggt aaacttcact ctgtttattt gcateatccg aatcctgctt cagaaaactgc</p> <p>ggccccaga tatecaggaag agtgacagca gtccatactc aaggctagcc aggtccacac</p> <p>tctgtgtgat cccctgtttt ggagtacact acatcatgtt cgcctctt cggacaatt</p> <p>ttaagcctga agtgaagatg gtctttgagc tctgtgtggg gcttttccag ggttttgtgg</p> <p>tggctatcct ctactgcttc ctcaatgggt aggtgcaggc ggagctgagg cggaagtggc</p> <p>ggcgtggca cctgcagggc gtctgtggct ggaaccccaa ataccggcac cgtcggggag</p> <p>gcagcaacgg cgcacgtgc agcacgagg ttctcatgtt gaccgcgtc agcccaggtg</p> <p>ccgcgcgtc ctccagcttc caagccgaag tctcctggt ctgaccacca ggtccccagg</p> <p>ggcccaaggc ggccccctcc gccccctcc actcaccgcc gcagacgccc gggacagagg</p>	Homo sapiens

469	159973 Vasoactive Intestinal Polypeptide Receptor 1	NP_004615.2 MRPPSPLPAR	WLCVLGALA WALGPAGQA ARLQECDYV QMIEVQHKQC LEEAQLNET P	Homo sapiens
			IGSKRMWDNL TCWPATPRGQ VVVLACPLIF KLFSSIQGRN VSRCTDEGW THLEPGPYPI ACGLDDKAAS LDEQNTMFYG SVKTYTIGY GLSLTLAVA TAILSFLRKL FCTLRNYIHMH LFISFILRAA AVFIKDLALF DSGESQCSF GSVGCKAAMV FFQYCVMANF FWLLVEGLYL YTLAVSFFS ERKYFWGYIL IGWGVSTFT MVWTFARIHF EDYGCWDTIN SSLWMIKGP ILTSILVNEI LFICIIIRLL QKLRPPDIRK SDSSPSRLA RSTLLIPLF GVHYIMFAFF PDNFKPEVKM VFELVGSFQ GFVVAILYCF LINGEVAELR RKWRWHLQG VLGNWPKYRH PSGGSNGATC STQVSMLTRV SPGARRSSSF QAEVSLV cgggacgagg gggcgggccc cgcgctcggg gcgctcggct acagctgcgg ggcccgaggt A ctcgcgcac tcgctccggg cccatgctgg agcgcgcgga acccggggga cctaggacgg agcgcgcggg gctcgggcgg ccccgcgac gctgagctcg ggatcgcgac cctgctgcct cccgcgctcg tgactgctg gctgctcgcc cccgtgaaca gattcaccc agaatgccga tttcatctgg aaatacagga ggaagaaaca aaatgtacag agctctgag gtctcaaca gaaaaacaca aagcctgcag tggcgtctgg gacaacatca cgtgctggcg gctgccaat gtgggagaga ccgtcacggt gccctgccc aaagtctca gcaatttta cagcaaaagca ggaaacataa gcaaaaactg tacgagtgac ggatggtcag agcgttccc agatttcgtc gatgcctgtg gtaacagga cccggaggat gagagaaga tcaagttaa tattctggtg aaggccattt ataccctggg ctacagtgtc tctctgagt ctctgcaac aggaagcata attctgtgcc tcttcaggaa gctgcaatgc accagaatt acatccact gaacctgttc ctgtccttca tcttgagagc catctcagtg ctggtcaagg acgacttct ctactccagg	
470	160040 Vasoactive Intestinal Polypeptide Receptor 2	NM_003382		Homo sapiens

471	160040 Vasoactive Intestinal Polypeptide Receptor 2	NP_003373.1	<p>tctggacagt tgcactgccc tgaccagcca tctctctggg tgggtgcaa gctgagcctg gtcttctgc agtactgcat catggccaac tcttctggc tgctgtgga ggggctctac ctccacacc tctgtgtggc catgtcccc cctagaaggt gcttctggc ctacctctg atcgatggg gcttccccac cgtctgcatc tgtagctgga cctgggtggg gctctacta gaagacacc gttgtctgga taaaaagac cacagtgtgc cctgggtggg catacgaata cggattttaa tttccatcat cgtcaatttt ttagtattat acgaattttg ctgcagaagt taacatcccc agatgtcggc ggcaacgacc agtctcagta caagaggctg gccaagtcca cgtctctgct tatecgtg ttcgggtcc actacatggt gttgcegtg tttccatca gcatctctc caataccag atactgtttg agctgtgctt cgggtcgtt caggcctgg tgggtggcgt cctctactgt ttcctgaaca gtgaggtgca gtgcgagctg aagcgaaaaat ggcaagaccg gtgcccagcc cgtcccgga gccgggatta cagggtctgc ggttctctct tctccacaa cggctcggag ggccctctgc agttccaccg cgcgtccoga gccagtcct tctcgcaaac ggagacctgc gtcatctagc cccacccctg cctgtcggac gcgcggggag gcccacggtt cggggcttct cgggggtgga gacgcgggtt tctctctcc agatgccccg gcacgtgtc gggcaggtca gcggtgtct gactcgtca agctggtgt ccactaaacc ccataactgg</p>	Homo sapiens
472	160055 Motilin Receptor (GPR30)	NM_001507	<p>IHPECRFHLE IQEEETKCTE LLRSQTEKHK ACSGVWDNIT P CWRPANVGET VTVPCKVFS NFYSKAGNIS KNCTSDGWE TFPDFVDACG YSDPEDESKI TFYILVKAIY TLGYSVLSMS LATGSIILCL FKLNHFTRNY IHLNLFSLF LRAISVLVKD DVLVSSGTL HCPDQSSWV GCKLSLVFLQ YCIMANFRWL LVEGLYLHTL LVAMLPPRRR FLAYLLIGWG LPTVCTGAWT AARLYLEDTG CWDNDHSVP WWVIRIPILI SIIVNFVLF SIIRILLQKL TSPDVGNDDQ SQYKRLAKST LLLILPFGVH YMVFAVFPIS ISSKYQILFE LCLSFQGLV VAVLYCFLNS EVQCELKRW RSRCTPSAS RYRVCGSSF SHNGSEGALQ FHRASRAQSF LQTETSVI</p>	Homo sapiens
472	160055 Motilin Receptor (GPR30)	NM_001507	<p>atgggcagcc cctggaacgg cagcgacggc cccgaggggg cgcgggagcc gccgtggccc A gcgtgccgc cttgacga cgcgcgtgc tcgcccttc cctgggggc gctgggtgccc gtgacggctg tgtgctgtg cctgtctgc gtggtgtga cgggcaacgt ggtgacggg atgctgacg ggcgtaccc ggacatggc accaccaca acttgtacct ggcagacatg gccgtgtccg acctactcat cctgctcgg ctcgccgttcg acctgtaccg cctctgggc tcgcggccct ggggtgtcgg gccgtgtgc tcgcgcctgt cctctacgt gggcgagggc tgacactag ccacgtgct gcacatgacc gcgctcagcg tcgagcgta cctggccatc tgccgcccgc tccgcgccg cgtcttggt acccggcgc gcgtccggc gctcatcgct gtgctgtgg ccgtggcgt cgtctctgc ctcctctct tgttctggt ggcgtcgag caggaccccg gcatctcgt agtcccggg ctaaatggca ccgcgcggat cgcctctcg cctctgcct cgtgcgccg tctctggtc tcgcggggc caccgccgc ccgcgcgtg gggcccaga cgcggaggg cgcggcgtg ttcagcccg aatgccggc gagccccg cagctgggcy cgtgcgtgt catgctgtg gtcaccacc cctactctt cctgcccc ctgtgcctca gcatctcta cgggtcact gggcgaggc tgtggagca cggcgggc ctgcagggc cggccgctc gggcgaggag agagccacc ggcagacgt ccgcgtcctg ctgggtgtg tctggcatt tataattgc tgggtgcct tccacgttg cagaatcatt tacataaaca cgggaagattc gcggatgatg tacttctct agtactttaa catcgtcgt</p>	Homo sapiens

473	160055	Motilin Receptor (GPR38)	NP_001498.1	ctgcaacttt tctatctgag cgcattatc aaccaatcc tctacaacct cattcaaaag aagtaacagag cggcgccctt taaactgctg ctgcgaagga agtccaggcc gagaggcttc cacagaagca gggacactgc ggggaagtt gcaggggaca ctggaggaga cacggtgggc tacaccgaga caagcgctaa cgtgaagacg atgggataa MLIGRYRDMR TTTNLYLGS AVSDLLILG LPFDLYLWR SRPWVFGPIL CRSLYVGE CTYATLLHMT ALSVERYLAI CRPLRARVL TRRRVRLIA VLWVALISA GPFLFLVGE QDPGISVVP LNSTARIASS PLASSPPLWL SRAPPSPS GPETAEEAL FSRECRPSA QLGALRWLM VTTAYFFLPF LCLSLYGLI GRELWSRRP LRGPAAAGRE RGHRTVRVL LVVLAFIIC WLPFHVGRII YINTEDSRM YFSQYFNVA LQLFYLSASI NPILYNLISK KYRAAFAKLL LARKSRPRGF HRSRDTAGEV AGDTGGDTVG YTETSANVKT MG atggactgc ccccgagct ctccttcgc ctcattggt cgcctttgc gctgggcttc A cgcctcaacg tccgtgcat cgcagcgcg acggcccaag cccggtccg tctcaccct agcctggctt acgctcgaa cctggctgc tccgacctg tgcgtacagt ctctctgcc ctgaaggcgg tggaggcgct agcctccgg cctggcctc tgcgggcctc gctgtgccc gtcttcgcg tggccactt ctcccaact tatgcggcg gggcttctt ggcggccctg agtgcaggcc gctacctggg agcagcttc ccttgggt accaagctt ccggaggcgg tgctattctt ggggggtgtg cgcggccatc tgggccccg tccgtgtca cctgggtctg gtctttgggt tggaggctcc aggaggtgtg ctggaccaca gcaacacct cctgggcac aacacaccgg tcaacggctc tccgggtgtg ctggaggctt gggaccggc ctctgccc cggcccgct tcagctctc tctctctc tttttctg ccttggccat cacagcttc tgctacgtg gctgcctcg ggcactggc cgtccggcc tgacgacag gcggaagctg cggcgccctt ggggtggcg cggggccctc ctacgctgc tgcctgctg aggacctac aacgctcca acgtggccag ctctctgtac ccaaatctg gagctcctg gcggaagctg gggctcatca cgggtgctg gagtgtgtg cttaatccg tggtagccg ttacttggga aggggtcctg gcctgaagac agtgtgtg cgaagaacg aagggggcaa gtcccagaag taa	Homo sapiens
474	160059	G Protein- coupled Receptor GPR40	NM_005303	atggactgc ccccgagct ctccttcgc ctcattggt cgcctttgc gctgggcttc A cgcctcaacg tccgtgcat cgcagcgcg acggcccaag cccggtccg tctcaccct agcctggctt acgctcgaa cctggctgc tccgacctg tgcgtacagt ctctctgcc ctgaaggcgg tggaggcgct agcctccgg cctggcctc tgcgggcctc gctgtgccc gtcttcgcg tggccactt ctcccaact tatgcggcg gggcttctt ggcggccctg agtgcaggcc gctacctggg agcagcttc ccttgggt accaagctt ccggaggcgg tgctattctt ggggggtgtg cgcggccatc tgggccccg tccgtgtca cctgggtctg gtctttgggt tggaggctcc aggaggtgtg ctggaccaca gcaacacct cctgggcac aacacaccgg tcaacggctc tccgggtgtg ctggaggctt gggaccggc ctctgccc cggcccgct tcagctctc tctctctc tttttctg ccttggccat cacagcttc tgctacgtg gctgcctcg ggcactggc cgtccggcc tgacgacag gcggaagctg cggcgccctt ggggtggcg cggggccctc ctacgctgc tgcctgctg aggacctac aacgctcca acgtggccag ctctctgtac ccaaatctg gagctcctg gcggaagctg gggctcatca cgggtgctg gagtgtgtg cttaatccg tggtagccg ttacttggga aggggtcctg gcctgaagac agtgtgtg cgaagaacg aagggggcaa gtcccagaag taa	Homo sapiens
475	160059	G Protein- coupled Receptor GPR40	NP_005294.1	MDLPPQLSFG LYVAEALGF PLNVLAIRGA TAHARLRLTP SLVYALNIGC SDLLLTVSLP P LKAVEALASG AWPLPASLCP VFAVAHFFPL YAGGGFLAAL SAGRYLGAAF PLGYQAFRRP CYSWGVCAAI WALVLCILGL VFGLEAPGGW LDHSNTSLGI NTPVNGSPVC LEAWDPASAG PARFSLSLLL FFLPLAITAF CYVGLRALA RSLGTHRRKL RAAWVAGGAL LTLLLCVGPY NASNVASFLY PNLGGSWRKL GLITGWSVV LNPLVTGYLG RGPGLKTVCA ARTQGGKSQK atgcacaccg tggctacgtc cggaccacaac cgtcctctgg gggcaccggc caacgcctcc A ggctgcccgg gctgtggcg caacgctcg gacggccag tccctcgcc gcgggccctg gacgctggc tctgtccgt ctcttcgcg gcgctgacg tgcgtggctt ggtggggaac tcgctggtca tctacgtcat ctgcccggc aagccgatgc gaccgtgac caacttctac atgcaccaac tggcgggccac ggacgtgacc tctcctctg tctcgtccc ctacacggcc ctgctgtacc cgtgcccgg ctgggtgctg ggcgacttca tgtgcaagt cgtcaactac atccagcagg tctcgtgtga gccacgtgt gccacttga cgcctatgag tgtggaccgc tggtagtga cgggtgtccc gttgcggcc ctgcaccgc gcacggccc cctggcgctg gctgtcagcc tcagcatctg gtaggctct gtcgcccgt gtcgcccgt gtcgcccgt	Homo sapiens
476	160189	G Protein- coupled Receptor GPR54	NM_032551	atgcacaccg tggctacgtc cggaccacaac cgtcctctgg gggcaccggc caacgcctcc A ggctgcccgg gctgtggcg caacgctcg gacggccag tccctcgcc gcgggccctg gacgctggc tctgtccgt ctcttcgcg gcgctgacg tgcgtggctt ggtggggaac tcgctggtca tctacgtcat ctgcccggc aagccgatgc gaccgtgac caacttctac atgcaccaac tggcgggccac ggacgtgacc tctcctctg tctcgtccc ctacacggcc ctgctgtacc cgtgcccgg ctgggtgctg ggcgacttca tgtgcaagt cgtcaactac atccagcagg tctcgtgtga gccacgtgt gccacttga cgcctatgag tgtggaccgc tggtagtga cgggtgtccc gttgcggcc ctgcaccgc gcacggccc cctggcgctg gctgtcagcc tcagcatctg gtaggctct gtcgcccgt gtcgcccgt gtcgcccgt	Homo sapiens

477	160189 G Protein- Coupled Receptor GPR54	NP_115940.1	<p>cacgcctgt caccgggccc gcgcgcctac tgccagtggg ccttccccag ccgcgcctg gagcgcctc tgcactgta caacctgtg gcgctgtacc tgctgccgt gctcgccacc tgccctgct atgcggccat gctgcgccac ctggcgccgg tgccctgctg ccccgccccc gccgatagc cctgcaggg gcaggtgctg gcagagcgcg caggcgccgt gcgggccaag gtctgcggc tggcgccgc cgtggtcctg ccttgcctg cctgctggg ccccatccag ctgttccctg tgctgcaggc gctgggccc gcgggctctt ggcacccacg cagctacgcg gcctacgcgc ttaagacctg ggctcactgc atgtcctaca gcaactccgc gctgaacccg ctgctctacg ccttccctgg ctgcacttc cgacaggcct tccgcgcgt ctgcccctgc gcgcgcgcc gccccgcgcg cccccgcgcg cccggacct cggaccccg agccccacac gcggagctgc accgcctggg gtcccccccg gccccccgca gggcgagaa gccaggggagc agtgggctgg ccgcgcgcgg gctgtgcgtc ctgggggagg acaacgcccc tctctga MHTVATSGPN ASWGAPANAS GCPGCGANAS DGPVPSRAV DAWLVPLFFA ALMLLGLVGN P SLVIYVICRH KPMRTVTNFEY IANLAATDVT FLCCVPFTA LLYPLPGWVL GDFMCKFVNY IQQVSVQATC ATLTAHSVDR WYVTVFPLRA LHRRTPLAL AVSLSIWVS AAVSAPVLAL HRLSPGPRAY CSEAFPSRAL ERAFALYNLL ALYLLPLLAT CACYAAMLRH LGRVAVRPAP ADSAHQGVVL AERAGAVRAK VSRLVAUVL LFAACWGPQ LFLVLQALGP AGSWHPRSVA AYALKTWIHC MSYSNSALNP LLYAFLGSHE RQAFRRVPCP APRRRRRPRR PGPSDPAAPH AELHRLGSHP APARAQKPGS SGLAARGLCV LGEDNAPL</p>	Homo sapiens
478	160202 Adrenomedullin in Receptor (ADMR)	LG6564	<p>CCGGCGCCAC GTGCCTGCTG CTGCGCGCCT ACCTGTGCTG GCATGTGCTG A ACCTATCATG AGACCTGCTG CTGTCTTCTA CTGTATGGA CCCACATCTG CCTACATCTG CACCTGTGAC CAACCTGCTG ACTTCTTCTA TGATGTGCTG TGATGTGCTG TACATGTGCTG ACTGCGCTAT TCACCGGATC CTTGACAACT TTATCAGCCA GACTGCCGGG GCGGGCTGCG ATGCTGTGGT CCATTACTTG CTAAGGACCA GACCGCGGGG GCACATGCGC CTCCTCTTCC TTCTGTGACA CCCAGCGTTA CATAATCATT ACCACGGGTG ATAGCCAGAC TGCTGCGAGC AACCCGCCAC CTGCGAGCCA AGCCTGAGCT TTCAGGCACA CCATTGCTC GCAAAGACTT GCGCCATGTG TCCCACTCAG TGTCTTACAC CCAGCTGAGG T</p>	Homo sapiens
479	160202 Adrenomedullin in Receptor (ADMR)	NM_007264	<p>cagcctctc acagctccc atagcctgga cctgcccggc ctccctccag gaccgagggg A ctcccaaggg aaactcaggc gtgtgctggt cccaatgtca gtgaaccca gctgggggccc tgccccctcg gagggggtca ccgcagtgcc taccagtgc ttgtctgag tgccacgtgg agctcagcca gaccagctg cttgacctct tcaaccacac tttgtctgag tgccacgtgg agctcagcca ggagaaacct ctggtgatat gcgtcaactg gcgcggccta ggcggggcag ggtgatgaa cctctacatc ctcaacatgg ccatcgcgga cctgggcatt gctctgtctc tgcccgtgtg gatgctggag gtcacactgg actacactg gctctggggc agcttctctt gcccgttcc tcaactcttc tactttgtca acatgatag cagcatcttc ttctggtgt gctcagtggt cgaccgctat gtcacctca ccagcgcttc cccctcctgg cagcgttacc agcaccgagt gcggcgggcc atgtgtgca gcatctgggt cctctcgccc atcatccgc tgcctgaggt ggtccacatc cagctggtgg agggccctga gcccattgct ccttctatgg caccttttga aacgtacagc acctggggcc tggcggtggc cctgtccacc accatcctgg gcttccctgt gcccctcct ctcacacag tcttcaatgt gctgacagcc tgccgggctgc ggcagccagg aacacccaag agccggcgcc actgcttggct gctgtgcgcc tacttgccat</p>	Homo sapiens

480	160202 Adrenomedullin NP_009195.1	MSVKPSWGP PSEGVTAPT	SDLGEIHNWT	ELLDLFNHTL	SECHVELSQS	TKRVVLFALY	P	Homo sapiens
		LAMFVVGIVE	NLLVICVNR	GSGRAGLMNL	YILNMAIDL	GIVLSLPVWM	LEVLDYTWL	
		WGSFSCRETH	YFYFVNMYS	IFFLVCLSDV	RYVTLSASP	SWQRYQHRVR	RAMCAGIWL	
		SAIIPLEVV	HIQLVEGPEP	MCLFMAPFET	YSTWALAVAL	STTILGFLLP	FPLITVENVL	
		TACRLRQPGQ	PKSRRHCLLL	CAYVAVEVMC	WLPYHVTLL	LTLHGTHISL	HCHLVHLLYF	
		FYDVIDCESM	LHCVINPIY	NFLSPHERGR	LLNAVHYLP	KDQTKAGTCA	SSSSCSTQHS	
		IIITKGDSP	AAAAPHPEPS	LSFQAHHLLP	NTSPISPTQP	LTPS		
481	160204 G Protein-Coupled Receptor RTA	atgcgggttc	tgcttcaaaa	gccatctctt	ccagcaggag	aggcctctac	tctgagctcc	A
		tattttccaa	ggctccggcg	cgcgctcgcc	gctggcctgc	tgccccggcg	ggctccggcg	Homo sapiens
		ccggaggcgg	gagtcacagg	aagagccctc	cacaaaagga	ggcctcggcg	gatacaggaca	
		gctgcaggtg	ggtgtgcaga	ctggtgagct	gccagcaggg	gccagacgc	gccaggcctg	
		gagatggctg	gaaactgctc	ctgggaggcc	catcccggea	acaggaaacg	gatgtgccct	
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		ctccccctaga	gacctcttgt	acagaaagtg	ccccagggtg	gtggggcccc	tccttgccct	
		aggctggttg	gtaaaagaga	ggaggtcaac	accagccta	gccacctctg	cctcttggtg	

482	160204	G Protein- Coupled Receptor RTA	CAC39840.1	<p> cagccctcct tgactgtgtc ccagccagca ccaggccagc agcctcatcc ctgccattca gggtgttcc agagattcga tctctttaag gcattatag tgagcaaatg tgaaggaat gggtctgga agaaagtctt ggttccatg ccttgtagct agtctttctt gcaacaacc tcccttccc ccgtcgagtc atttggtgac tttgatggg gattttctgg ttatgtcaag gctctggaga caggaaggc cttggccgc cttgggtagt tgacctgctt tttctgactc cgggacgagc cagctctagg gtgctccgg gagcactga ggtatccgc aggccatgag gacctactgg gcagctctg gcagctctt tggctccag cccaccgca aagtggacac tggtccgccc ctggccacct ggggactggc actgtgtgc acagtggccc aatgtggcca acggaagttt tataaagac aaaaagtata tcaataaca tttataact tgc MAGNCSWEAH PGNRNMCPG LSEAPELYSR GFLTIEQIAM LPPAVMNYI FLLCLCLGLV P GNGLVWFFG FSIKRNPSI YFLHLASADV GYLFSAKVS ILNTGGFLGT FADYIRSVCR VLGLCMELTG VSLLPVSAE RCASVIFPAW YMRPRPKRLS AWCALLMWL SLVLTCLHNY FCVFLGRGAP GAACRHMDF LGILLFLCC PLMVLPCIAL ILHVECRARR QRSAKLNHV ILAMSVFLV SSIYLGIDWF LFWVFIQIPAP FPEYVTDLCI CINSSAKPIV YFLAGRDKSQ RLWEPLRVVF QRALRDGAEL GEAGGSTPNT VTMEMQCPG NAS </p>	Homo sapiens
483	160206	G Protein- Coupled Receptor GPR32	NM_001506	<p> atgaatgggg tctcggaggg gaccagagc tgcaagtaca ggcaacctgg ggtcctgaca A cgtgatcgct cttgttccag gaagatgaac tcttcgggat gcctgtctga ggaggtggg tccctccgcc cactgactgt ggttatectg tctgcgtcca ttgtcgtcgg agtgcgtggc aatgggctgg tgctgtggat gactgtcttc cgtatgggac gcacgggtctc caccgtctgc ttcttcacc tggcctctgc cgatttcatt cctcactgt cctgcctat tgcctatgtac tatattgtct ccaggcagtg gctcctcggc gagtgggctt gcaaacctca catcaccttt gtgttcctca cctactttgc cagtaactgc cctcctgtct tcatctctgt ggacctgtgc atctctgtcc tctaccctg ctgggcccgt aaccaccga ctgtgcagcg ggcgagctgg ctggcctttg ggggtgtggct cctggccgcc gccttgtgt ctgcgcacct gaaattccgg acaaaccagaa aatggaaatgg ctgtacgcac tgcctacttg cgttcaactc tgacaatgag actgcccaga ttgggattga aggggtcgtg gagggacaca cctgcgcca cctcatccg ttcctgctgg gcttccctgg gcccttagca atcataggca cctgcgcca cctcatccg gccaaactct tgcgggaggg ctgggtccat gccaaaccgc ccaagaggtt gctgctggtg ctggtgagcg ctttctttat cttctggtcc ccgtttaacg ttggtgctgtt ggtccatctg tgggacggg tgatgctcaa ggaatctac caccgccga tgcgtctcat cctccaggt agctttgcct tgggctgtgt caacagcagc ctcaacccct tctctacgt cctcgttggc agagatttcc aagaaaagt tttccagctt tgactttgt ccttggcgag ggcgtttgga gaggagagat ttctgtcatc ctgtccctgt ggcaacgcc cccgggaatg a MNGVSEGRG CSRDQPGVLT RDRCSRKNW SSGSLSEEVG SLRPLTVVIL SASIVGVLG P NGLVWMTVF RMARTVSTVC FFHLALADFM LSLSLPIAMY YIVSRQWLLG EWACKLYTF VFLSYFASNC LLVFISVDRS ISVLYPVWAL NHRTVQRASW LAFGVWLLAA ALCSAHLKFR TTRKWNCTH CYLAFNSDNE TAQIWIIEGV EGHIIIGTGH FLLGFLGPLA IIGTCAHLR AKLLREGWVH ANRPKRLLV LVSAFFIWS FPNVLLVHL WRRVMLKEIY HPRMLLIQA SEALGCVNS LNPFYVFG RDFQKEFFQS LTSALARAFG EEEFLSSCPR GNAPRE cagcctcct ctcceacctc tgtctgccc gtgcctcttg tctagctgt gtcaggagct A gactgcctcc agggctggaa tctgtgtct cctctgtgccc cagagcccca cgatgtcggc </p>	Homo sapiens
484	160206	G Protein- Coupled Receptor GPR32	NP_001497.1	<p> MNGVSEGRG CSRDQPGVLT RDRCSRKNW SSGSLSEEVG SLRPLTVVIL SASIVGVLG P NGLVWMTVF RMARTVSTVC FFHLALADFM LSLSLPIAMY YIVSRQWLLG EWACKLYTF VFLSYFASNC LLVFISVDRS ISVLYPVWAL NHRTVQRASW LAFGVWLLAA ALCSAHLKFR TTRKWNCTH CYLAFNSDNE TAQIWIIEGV EGHIIIGTGH FLLGFLGPLA IIGTCAHLR AKLLREGWVH ANRPKRLLV LVSAFFIWS FPNVLLVHL WRRVMLKEIY HPRMLLIQA SEALGCVNS LNPFYVFG RDFQKEFFQS LTSALARAFG EEEFLSSCPR GNAPRE cagcctcct ctcceacctc tgtctgccc gtgcctcttg tctagctgt gtcaggagct A gactgcctcc agggctggaa tctgtgtct cctctgtgccc cagagcccca cgatgtcggc </p>	Homo sapiens
485	160210	G Protein- Coupled	NM_004778	<p> gactgcctcc agggctggaa tctgtgtct cctctgtgccc cagagcccca cgatgtcggc </p>	Homo sapiens

Receptor
GPR44
(CRTH2)

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gctgtgggc ctggtggaga atggagtcat cctcttcgtg gtgggtgcc gcattgcgcca
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ctgcaaatg cactctccca tcttcttctt cctgtctcag gccagcggct tctgtctcag
cgccatcagc ctggaccgtt gctgcaaggt ggtgcccgtt gactagcgg tgctcaaac
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gcgcgggctg cctctctca ccagccctgg cctcttcaac agcgtggcca acccggtgct
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486	160210 G Protein- Coupled Receptor GPR44 (CRTH2)	NP_004769.1	<p> ttctgccac caaaggccag ggtcactgaa ggctggccc acagcaggtg ctgagcaaa ggaacagtga ggtgccagc tagctgcaga gccacctgt gttgacacct cgcacctgct ccctcccatc ccttccctt ttactcatag cacttcccc attggacacg tggcgcatct tgcttggtta ttatgtttc tctccatcag aatgaaaagt cctcgagggc agggactttg gtctattgtc tgtattgcc ggtgcctagg attgtgcctg tatgcaacag gcaactcaata aatatttttg ctgtagactg 9 MSANATLKPL CPILEQMSRL QSHSNTSIRY IDHAAVLLHG LASLLGLIVEN GVILFVVGCR P MRQTVVTTWV LHLALSLLA SASLPFFTYF LAVGHSWELG TTFCKLHSSI FFLNMFASGF LLSAISLDRG LQVVRPWAQ NHRTVAAHK VCLVLWALAV INTVPYFVFR DTISRLDGRI MCYNNVLLN PGPDRTATCN SRQAALAVSK FLIAFLVPLA IIASSHAAVS LRLQHRGRRR PGREVRILVAA VAAEFALCWG PYHVFSLEA RAHANPGLRP LWRGLPFVT SLAFENSVAN PVLXVLTCPD MLRKLRSLR TVLESVLVDD SELGGAGSSR RRRTSSTARS ASPLALCSRP EEPRGPALL GWLLGSCAAS PQTGPLNRAL SSTSS atgaaatgaat ccaggtggac tgaatggagg atcctgaaca tgagcagtggt cattgtgaat A gcgtccgagc gtcactcctg cccacttgga tttggccact acagtgtggt gtagtgcctgc atcttcgaga cagtggttat tgtgtgctg acatttctga ttattgtcg gaactaaca gttatctttg ccttccattg tgcctcactg ttacatcatt atactaccag ctatttccatt cagacgatgg catatgctga tcttttcgtt ggagttagct gcttgggtcc tactctgtca cttccact actccacagg tgcacagag tcttaactt gccgggtttt tggatatatc atctcagttc taaaagtggt tctatggca tgccttctt gcacagtggt gtagcgttat cttgcaataa ccaagcctct ttcctacaat caactgttca ccccttgctg cttgagaatt tgcatattt tgatctggat ctactcctgc taaatttct tgccttccct ttttggctgg gggaaacctg gttaccatgg tgacattttt gaatgggtgt ccacgtcttg gctcaccagt gcctatttta ctggctttat tgtttgctta cttatgctc ctgctgcctt tgttgcctgc ttcacctact tccacatttt caaaatttgc cgtcagcaca ccaaagagat aaatgaccga agagccgat tccctagtca tgaggtagat tctccagag agactggaca cagccctgac cgtcgctacg ccatggtttt gtttaggata accagtgtat ttatatgct tgggtcccc tatataattt actttcttct agaaagctcc cgggtccttg acaatccaac tctgtccttc ttaacaacct ggcttgcatg aagtaaatgt ttttctaact gtgtaataata cagcctctcc aacggcgttt tccggctagg cctccgaaga ctgtttgaga caatgtggac atcctgtatg tgtgtgaagg atcagggaagc acaagaacct aaacctagga aacgggctaa ttcttgcctc atttga </p>	Homo sapiens
487	160212 G Protein- Coupled Receptor GPR52	NM_005684	<p> atgaaatgaat ccaggtggac tgaatggagg atcctgaaca tgagcagtggt cattgtgaat A gcgtccgagc gtcactcctg cccacttgga tttggccact acagtgtggt gtagtgcctgc atcttcgaga cagtggttat tgtgtgctg acatttctga ttattgtcg gaactaaca gttatctttg ccttccattg tgcctcactg ttacatcatt atactaccag ctatttccatt cagacgatgg catatgctga tcttttcgtt ggagttagct gcttgggtcc tactctgtca cttccact actccacagg tgcacagag tcttaactt gccgggtttt tggatatatc atctcagttc taaaagtggt tctatggca tgccttctt gcacagtggt gtagcgttat cttgcaataa ccaagcctct ttcctacaat caactgttca ccccttgctg cttgagaatt tgcatattt tgatctggat ctactcctgc taaatttct tgccttccct ttttggctgg gggaaacctg gttaccatgg tgacattttt gaatgggtgt ccacgtcttg gctcaccagt gcctatttta ctggctttat tgtttgctta cttatgctc ctgctgcctt tgttgcctgc ttcacctact tccacatttt caaaatttgc cgtcagcaca ccaaagagat aaatgaccga agagccgat tccctagtca tgaggtagat tctccagag agactggaca cagccctgac cgtcgctacg ccatggtttt gtttaggata accagtgtat ttatatgct tgggtcccc tatataattt actttcttct agaaagctcc cgggtccttg acaatccaac tctgtccttc ttaacaacct ggcttgcatg aagtaaatgt ttttctaact gtgtaataata cagcctctcc aacggcgttt tccggctagg cctccgaaga ctgtttgaga caatgtggac atcctgtatg tgtgtgaagg atcagggaagc acaagaacct aaacctagga aacgggctaa ttcttgcctc atttga </p>	Homo sapiens
488	160212 G Protein- Coupled Receptor GPR52	NP_005675.1	<p> MNESRWTEWR ILNMSSGIWN ASERHSCPLG FGHYSVVDVC IFETVIVLL TFLIAGNLT P VIFAFHCAPL LHYYTSYFI QTMAYADLFV GVSLVPTLS LLHYSTGVHE SLTCRVFGYI ISVLKSVSMA CLACISVDRI LAITKPLSYN QLVTPCLRRI CIIILIWISC LIFLPSFFGW GKPGYHGDIF EWCATSWLTS AYFTGFIVCL LYAPAAVVC FTYFHIFKIC RQHTKEINDR RARFPSHEVD SSRETGHSPP RRYAMVLFRI TSVFYMLWLP YIIFLLESS RVLNDNPTLSF LTTWLAVSNS FCNCVIYSLN NGVFRGLLRR LFETMCTSCM CVKDQEAQEP KPRKRANSCS I </p>	Homo sapiens
489	160217 G Protein- Coupled	NM_005683	<p> atgagtcagc aaaacaccag tggggactgc ctgtttgacg gtgtcaacga gctgatgaaa A accctacagt ttgcagtcga catcccacc ttcgtctctg gcctgctct caacctgctg </p>	Homo sapiens

Receptor GPR55	160217 G Protein- Coupled Receptor GPR55	NP_005674.1	gcatccatg gcttcagcac cttccttaag aacaggtggc cagattatgc tgcacacctc atctacatga tcaacctggc agtctttgac ctgctgctgg tgcctccctt cccattcaag atggtcctgt cccaggtaca gtcccccttc ccgtccctgt gcacctgggt ggagtgcctt tacttcgtca gcatgtacgg aagcgtcttc accatctgct tcatcagcat ggaccggttc ttggccatcc gttaccctgt actggtgagc cactccggtc cccaggag atctttggga tctgcatgca caatctgggt cctgggtgg accggaagca tccctatcta cagtctccat ggaaagtgg aaaaatacat gtgcttccac aacatgtctg atgataacct gagcgccaag gtcttcttc cgctggaggt gttggcttc ctccttccca tgggcatcat gggcttctgc tgtccaggga gcatccacat cctgctgggc cgcgagacc acaccaggga ctgggtgcag cagaaagcct gcatctacag catcgagcc agcctggctg tattcgtggt ctccttctc ccagtcacc tggggttctt cctgcagttc ctggtgagaa acagctttat cgtagagtgc agagccaagc agagcatcag cttcttcttg caattgtcca tgtgtttctt caatgtcaac tgtgctgtg atgttttctg ctactacttt gtcatcaaa aattccgcat gaacatcagg gcccaccgc cttccagggt ccagctgttc ctgcaggaca ccacgacttc ccggggctaa MSQNTSGDC LFDGVNLMK TLQFAVHIPT FVLGLLLNL AIHGFTFLK NRWPDYAATS P IYMINLAVED LLLVLSLPEK MVLSQLSPF PSCLTLECL YFVSMYGSVF TICFISMDRE LAIRYPLLV HSGPPGRSLG SACTIWLWV TGSIPYSFH GKVEKYMCFH NMSDDTWSAK VFFPLEVFGF LLPMGIMGFC CSRSIHILLG RRDHTQDWVQ QKACIYSIAA SLAVFVVSFL PVHLGFFLQF LVRNSFIVEC RAKQSISFEL QLSMCFSNVN CCLDVFCYF VIKFRMNIR AHRPSRVQLV LQDTTISR	Homo sapiens
Receptor GPR55	160219 G Protein- Coupled Receptor GPR35	NM_005301	atgaatggca cctacaacac ctgtggctcc agcgacctca cctgggcccc agcgatcaag A ctgggcttct acgctactt cggcgctcctg ctggtgctag gcctgctgt caacagcctg gcgctctggg tgtctgctg ccgcatgcag cagtgagcgg agaccgcgat ctacatgacc aacctggcgg tggccgacct ctgctctgtg tgcacctgc cctcctgtgt gcactccctg cgagacacct cagacacgcc gctgtgccag ctctccacgg gcatctacct gaccaacagg tacatgagca tcagcctggt cagggccatc gccgtggacc gctatgtggc cgtgcggcac ccgctgctg cccgcggct cgggtccccc aggcaggctg cggcctgtg cgcggtcctc tgggtgctgg tcatcgctc cctggtggt cgtggctcc tggggattca ggaggcgggc ttctgcttca ggagcacccg gcacaattc aactccatgc ggttccccgt gctgggattc tacctgccc tggcctggt ggtcttctgc tccctgaagg tggtagctgc cctggcccag aggccacca ccgactggg gcaggcagag gccaccgca aggtgccc catggctctg gccaaacctc tgggttctg ggtctgctt ctgccccctg acgtggggt gacagtgcg ctcgagtggt gctggaacgc ctgtgccc cttggagacga tccgtcgcc cctgtacata accagcaagc tctcagatgc caactgctgc ctggagcga ctgctacta ctacatggc aaggagtcc aggagcgctc tgcactggcc gtggtcccc gtgctaaagg ccacaaaagg caggactctc tgtcgtgac cctcgccctaa MNGTYNTGCS SDLTWPPAIK LGFYAYLGLV LVLGLLLNSL ALWVFCCRMQ QWTETRIYMT P NLAVADLCIL CTLPFLHSL RDTSDTLCQ LSQGIYLTNR YMSISLVTAI AVDRYAVVRH PLRARGLRSP RQAAAVCAVL WVLVIGSIVA RWLLGIQEGG FCFRSTRHNF NSMRFPLLGF YLPLAVVVFEC SLKVVTALAQ RPPTDVQAE ATRKAARMWV ANLLVFVCF LPLHVGLTVR LAVGWNACAL LETIRRALYI TSKLSDANCC LDAICYIYMA KEFQASALA VAPRAKAHKS	Homo sapiens

493	160221	G Protein- Coupled Receptor GPR27	NM_018971	QDSLCVTLA	atggcgaaacg cgaagcgaac gggtggcagc ggcggcgcg agggcgccgc cctgggcctc A aagctggcca cgtcagcct gctgctgtgc gtgagcctag cgggcaacgt gctgttcgcg ctgctgacg tgcgggagcg cagcctgcac cgcgcctcgt actacctgct gctcgacctg tgcttgccg acgggctgcg cgcgctcgcc tgcctcccg cgtcatgct ggcgcgcg cgtgcgcg cgcggcgcg ggcgcgcg ggcgctggtg gctgcaagct gctcgcttc ctggcgcg cttctgctt ccacgcgc ttcctgctgc tggcggtggg cgtcacccgc tacctggcca tgcgcacca cgccttcctat gcagagcgcc tggcggctg gccgtgcgcc gccatgctg tgtgcgcgc ctgggcgctg gcgctggcg cggcctccc gccagtgtg gacggcggtg gcgacgacga ggagcgcg tgcgcttgg agcagcgcc cgaaggcgcc ccggcgcg tgggttctt gctgctgtg gccgtggtg tggcgccac gcacctgctc tacctcgc tgccttctt catccagac gcgcgaaga tgcggccgc gcgctggtg ccgcgctca gccagactg gacctccac ggcggcgcg ccaccggcca ggcggcgcc aactggacgg cgggcttcgg ccgcggccc cgcgtgctg aagaattcaa gacggagaag gcaggcgcg gcccgcgc ggcgcctc ctcgctgctg aagaattcaa gacggagaag aggctgtgca agatgttcta cgcgctcac ctcgctctcc tgcctctctg gggcgctac gtcgtggcca gctacctgcg ggtcctggtg cggcccgcg cgtccccca ggcctacctg acggcctcg tgtgctgac cttcgcgac gccgcatca acccgctgct gtgctctc ttcaacagg agctgagga ctcgttcagg gccagttcc ctcgtgcca gacccccg accacccgg cgaccatcc ctcgacctg aaaggcattg gttatga CLADGLRALA CLPAVLAAR RAAAGAGPP GALGCKLAF LALFCFHAA FLILGVGTR YLAIAHHRFY AERLAGWPCA AMLVCAAWAL ALAAFPVPL DGGDDDEAP CALEQRPDGA PGALGFLLLL AVVGATHLV YLRLFFTHD RRMRPARLV PAVSHDWFH GPGATGQAAA NWTAGFGRGP TPPALVGIRP AGPGRGARRL LVLEEFTEK RLCKMFYAVT LLFLLWGPY VVASYLRLV RPGA VPQAYL TASVWLTFQA AGINPVVCL ENRELDCFR AQFPCCQSPR TTQATHPCDL KGIGL	Homo sapiens
494	160221	G Protein- Coupled Receptor GPR27	NP_061844.1	MANASEPGS GGEAAALGL KLATLSLLC VSLAGNVLEF LLIVRERSLH RAPIYLLLDL P CLADGLRALA CLPAVLAAR RAAAGAGPP GALGCKLAF LALFCFHAA FLILGVGTR YLAIAHHRFY AERLAGWPCA AMLVCAAWAL ALAAFPVPL DGGDDDEAP CALEQRPDGA PGALGFLLLL AVVGATHLV YLRLFFTHD RRMRPARLV PAVSHDWFH GPGATGQAAA NWTAGFGRGP TPPALVGIRP AGPGRGARRL LVLEEFTEK RLCKMFYAVT LLFLLWGPY VVASYLRLV RPGA VPQAYL TASVWLTFQA AGINPVVCL ENRELDCFR AQFPCCQSPR TTQATHPCDL KGIGL	Homo sapiens	
495	160222	G Protein- Coupled Receptor GPR72	NM_016540	atggtccctc acctctgct gctctgtctc ctcctctgg tgcgagccac cgcgccccac A gaggcgcgg ccgacgagca gaggcgag ggcgctctg cgcgccccac tgcctcgcac ttcttctctt ggaacaacta cactctctc gactggcaga actttgtgg caggaggcg tacggcgctg agtcccagaa cccacggtg aaagccctgc tcatgtggc ttactcctc atcatgtct tctactctt tggcaacgtc ctggtctgtc atgtcatctt caagaacacg cgaatgcact cggccaccag cctctctac gtcaacctgg cagttgccga cataatgatc acgctgctca acacccctt cactttggtt cgccttgta acagcacatg gatatttggg aaggcatgt gccatgtcag ccgcttgcc cagttactgt cactgacgt ctcagcactg acactgacag ccattgcggt ggatgccac cagttcatc tgcacctt gaaaccccg atctcaatca caaagggtgt catctacac gctgtcatc ggacctggc tacgttctt tcactccac atgctatct ccagaaatta ttaccttca aatacagta ggacctgtg cgctccctt gctgcccaga cttccctgag ccagtcgacc tctctggaa gtacctggac ttggccacct tcactctgt ctacatctg cccctctca tcactctgt ggcctacgct	Homo sapiens	

496	160222	G Protein- Coupled Receptor GPR72	NP_057624.1	<p>cgtgtggcca agaaactgtg gctgtgtaat atgattggcg atgtgaccac agagcagtac tttgccctgc ggcgcaaaaa gaagaagacc atcaagatgt tgatgctggt ggtagtcctc tttgccctct gctgggtccc cctcaactgc tacgtctccc cctgtgccag caaggtcatc cgcacaaca atgcccctta ctttgccctc cactggtttg ccatgagcag cacctgctat aacccttca tatactgtg gctgaacgag aacttcgga ttgagctaaa ggcattactg agcatgtgc aaagacctcc caagcctcag gaggacggcg accctccc agttccctcc ttcaggggtg cctggacaga gaagaatgat ggcagagggg ctcctctgc caataacctc ctgccacct cccaactcca gctgggaag acagacctgt catctgtgga acccattgtg acgatgagtt agaagaggtt gggaaagggg agtgggaggg gctgtctcc acctgaggca gggaaagaga gcctattctc acacatgac ttcagagtgc tggaaacaca ctctgcaga aggctgtagg actcttgaat tcctaggaaa ctgtccagcc cctagcccc atgtgatgtg aaaactaaa ggcaccacca actagacatg tgtcataaa tcccatcta agaaacactg ggaggcacag cagcctgtat ctctgaggaa gaggagcgag gacaaacttg gccagatgg gggctgaatc attcaactgc ctccatctgt ggggcagctg ctgccttaca gcccttccca ctagactgag catccgaag gagacctaaa tcatacttg ggtgtggtga cccagatgca cagagctctg cttgaacacg gtacacggcg cagggaatg ccagcaa</p>	Homo sapiens
497	160223	G Protein- Coupled Receptor G2A	NM_013345	<p>MVPHLLLLCL LPLVRATEPH EGRADEQSAE AALAVPNASH FFSWNYTFS DWQNFVGRRR P YGAESONPTV KALLIVAYSF IIVFSLFGNV LVCHVIFKNQ RMHSATSLFI VNLAVADIMI TLNLTPTLV RFVNSWIFG KGMCHVSRFA QYCSLHVSAL TLTALAVDRH QVIMHPLKPR ISITKGIYI AVIWTWATEF SLPHAIQKLN FTFKYSIEDIV RSLCLPDFPE PADLFWKYLD LATFILLIYL PLIIISVAYA RVAKKLWLCN MIGDVTTEQY FALRRKKKKT IKMLMLVVVL FALCWFPINC YVLLSSKVI RTNNALYFAF HWEFMSSTCY NPFIYCWLE NFRIELKALL SMCQRPPKPQ EDGQSPVPS FRVAWTEKND GQRAPLANNL LPTSQSQSGK TDLSSVEPIV TMS</p>	Homo sapiens
497	160223	G Protein- Coupled Receptor G2A	NM_013345	<p>gggaggggtg cgagggttagc cagcgaggcg gggccctggg tcattttaaa ctctcagagt A gaactgtttg ataggaccga caagacgcat gacatgtact tagatagctt atcttagagc cacactgaga ttggaacccg caaaatatgc caggagagaa ggtgagcaag ggacacgaca ctcacccgga taaacccaac aagcgcagcg agcgtgtggg gaaacccggan ccttgacac cgccggggga aggtgggcn cgcgccacc cgtggaagaa cagcgcggan gcacccacg agatgagacg gaactgcccgt gagatccagc aatnccnact gtgggtctga cccaggatan cggaagagcag ggaactgaac agcctctc atgttcttga caccgtcatt ctacagagct cagctaaggc acagaggcag ccgagcgtct gtcagcagag tcgtggctga gcagaacacg ccacacgcca cagccacac gccacagtg caggatgtct caagatggaa gggcacagtg gaatatatat atatatatat atttttggcg agaccctgga ggacacactg aatacaatgg aataccatcc cgcctttgaa aggaaggga atcctggcac acgctgcaac aggagggagc ttgaggacac tgtggtgagt ggagcacgtg agacacgaa ggacacacg tgaagacacg cagagatgcc caccacgtg gggaggtgac aggggagccc agcgacaga gacaaagtgg aatggaggcc tgggggctgg gagcaaatgc ggagcagtg cttcctgggg cagagtctcc gtttgggaag atgagaaggt tctgccgac gatgctggcg atggttgcaag aagaatgtga atgtgcccac tgctactgaa aaacgggttac aatgggaacg ccaccccgat gaccaccat gccccgtggg cctccctggg cctctccgccc aagacctgca acaactgtgc cttcgaaagag</p>	Homo sapiens

498	160223	G Protein-Coupled Receptor G2A	NP_037477.1	MCPLLKNGY NGNATPVTTT APWASLGISA KTCNNVSFEE SRIVLVVWYS AVCTLGVPAN P	Homo sapiens
				CLTAWLALQ VLOGNVLAIVY LLCLALCELL YTGTLPLMWI YIRNQRWTL GLIACKVTAY IFFCNIYVSI LFLCCISCDR FVAVVYALES RGRRRRTAI LISACIFILV GIVHYPVFQT EDKETCFDML QMDSRIAGYY YARFTVGFPI PLSIAFTNH RIFRSIKQSM GLSAAQKAKV KHSAIAVVVI FLVCFAPYHL VLLVKAAAFS YLRGDRNAM GLEERLYTAS VVFLCLSTVN GVADPIIYVL ATDHSRQEVLS RIHKGWKEWS MKTDVTRLTH SRDTEELQSP VALADHYTFS RPVHPGSPC PAKRLIEESC	
499	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	NM_004767	cgggtacagg gggcccaaga gctgggctgg ctgtctcctg ctcatccagc catgctggg A ctgtggcccc tggctgtctc tctgtgtgtg attttggctg tggggctaag caggtctct gggggtgtccc cctgtcaact gggcaggcac agagccaga cccaggagca gcagagccga tccaagaggg gcaccaggga tgaggaggcc aaggcgctgc agcagtatgt gctgaggag tgggcggagt acccccgccc cattcacct gtggccttg agccaaccaa gcccttgggtg gccaccagcc ctaaccocga caaggtggg ggcacccag acagtgggca ggaactgagg ggcaatctga caggggcacc agggcagagg ctacagatcc agaaccctt gtatccgggtg	Homo sapiens

500	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP- 2)	NP_004758.1	MRWLWPLAVS PEWAEYPRP YPTVTESSYSA FFCLPIVIFN PIERQOSILA LVMTYQNARM VVGLTVVYAF RPLGQAFLLDC C	LAVILAVGLS IHVAGLQPTK YAIMLLALVV EITKQRLIGD KLAVIWWGSM WWYFGCYFCL CTLPENVCNI CCCCCCECG	RVSGGAPLHL PLVATSPNPD FVGVIVGNLS VSCRAVPEME TLAVPELLIW PILETVTCQL WAYLSTELT GASEASAANG	GRHRAETDSQ KDGTPDSGQ VMCIVWHSY VSSLGVTTF QLAQEPAPTM VTWRVRGPPG RQTLDLILGLI NQSTFFKGA SSIFYHKPRE SPPLLPLGTP	QSRSKRGTE ELRGNLTGAP LKSANWSILA LCALGIDRFH GTLDDSCIMKP RKSECRASKH EQCESQLNST ITPVLLLCIC	Homo sapiens
501	160225	Sphingolipid Receptor Edg6	NM_003775	gagtcagccc ccaaacagctg ccggctggccc ggcgccgccc ccacatgcgg gctcacgggc ggcgcccgcc cttcagcctg gagcgggccc cgcgctgctg ctccagcctt	ccgggggagg gcgcccgagg ggcgcgagg agctgcctgg tcgcgagctt gcgccctacc cagtggttcc ctcttcactg accaaagaca ggatgctgc ctgcctctct	ccatgaacgc ggcacagcg ggccggagg tggtgctgga gggtctacta tgcccaactg tacgggaggg caggggagcg gcccgtctta ctttgctggg actccaagcg	cacggggacc gctcatgtt tgccggcctg gaactgctg tgctcctggt gctgctgctg cctgctctc cttgccacc ggcgcttct cttgctggg ctacatctct	ccggtggccc ctgcactaca ggggccctgc ggcgcccgcc aacatcacgc ggggcccgca accgcccctg atggtgcggc ggcctctgct ctgtgcgccc ttctgcctgc	Homo sapiens

502	160225	Sphingolipid Receptor Edg6	NP_003766.1	<p>cgggctcctg gccaccatca tgggccccta tggggcccatc tccgcctgg tgcaggccag</p> <p>cgggcagaag gcccacgcc cagcgcccg cgcgaagcc cgcgcctgc tgaagacggt</p> <p>gctgatgac ctgctggcct tcttggtgtg ctggggccca ctctcgggc tctgctggc</p> <p>cgacgtcttt ggtcccaacc tctgggccc gaggtaacct cggggcatgg actggatcct</p> <p>ggccctggcc gtcctcaact cggcggtcaa ccccatcatc tactccttc gcagcaggga</p> <p>ggtgtgcaga gccgtgtcta gcttctctg ctgcgggtgt ctcggctgg gcatgcgagg</p> <p>gcccggggac tgcctggccc ggccctctga ggtcactcc gagcttcca ccaccgacag</p> <p>ctctctgagg ccaagggaca gctttcggg ctcccactcg ctccgctttc gcatgcggga</p> <p>gcccctgtcc agcatctcca gctgctggg catctgaagt tgcagtcttg cgtgtggatg</p> <p>gtcagccac cgggtgcgtg ccaggcagg cctcctgggg tacaggaaac tgtgtgcacg</p> <p>cagcctcgcc tgtatgggga gcagggaacg ggacaggccc ccatggtctt cccggtggcc</p> <p>tctcggggct tctgacgcca aatgggcttc ccatggtcac cctggacaag gaggtaaacca</p> <p>ccccactcc ccgtaggagc agagagcacc ctggtgtggg ggcgagtgtg tcccacaaac</p> <p>ccgcttctg tgtgattctg gggaagtccc gcccctctc tgggcctcag tagggctccc</p> <p>aggctgcaag ggtggactg tgggatgcat gccctggcaa cattgaagtt ccatcatggt</p> <p>aaaaa</p>	Homo sapiens
503	160228	T-Cell Death-Associated Gene 8 (GPR65)	NM_003608	<p>atgaacagca catgtattga agaacagcat gacctggatc actatttgt tccatttgt A</p> <p>tacatcttg tgattatagt cagcattcca gccaatattg gatctctgt tgtgtctttc</p> <p>ctgcaaccaca agaaggaaag tgaactagga atttacctct tcagtttgtc actatcagat</p> <p>ttactctatg cattaactct cctttatgg attgattata ctgggaataa agacaactgg</p> <p>actttctctc ctgccttggt caaaggaggt gcttttctca tgtacatgaa gttttacagc</p> <p>agcacagcat tctcactg ccatgcccgt gatcggtatt tggctgtgt ctaccctttg</p> <p>aagttttttt tcctaaggac aagaagaatt gcactcatgg tcagcctgtc catctggata</p> <p>ttggaaacca tcttcaatgc tgtcatgttg tgggaagatg aaacagtgt tgaatatgc</p> <p>gatgccgaaa agtctaattt tactttatgc tatgacaaat accctttaga gaaatggcaa</p> <p>atcaacctca acttggtcag gacgtgtaca ggctatgcaa taccttttgt caccatcctg</p> <p>atctgtaacc ggaaggtcta ccaagctgtg cggcacataa aagccacgga aacaaggaa</p> <p>aagaagagaa tcataaaact acttgctcagc atcacagtta ctttgtctt atgtttact</p> <p>cccttctatg tgatgttgct gattcgtgc attttagagc atgctgtgaa cttcgaagac</p> <p>cacagcaatt ctgggaagcg aacttacaca atgtatgaa tcacgggttc attaacaagt</p> <p>ttaaatgtg tgcgtgatcc aattctgtac tgtttgtta ccgaaacagg aagatatgat</p> <p>atgtggaata tattaatatt ctgcactggg aggtgtaata catcacaaag acaagaaaa</p> <p>cgcatacttt ctgtgtctac aaagataact atggaatttag aggtccttga gtag</p>	Homo sapiens

504	160228	T-Cell Death- Associated Gene 8 (GPR65)	NP_003599.1	MNSTCIEEQH LLYALTPLW KFFFLTRRI INLNLFRCT PFHVMLLIRC MWNILKFTG	DLDHLYFPV IDYTWNKDNW ALMVSLSIWI GYAIPLVTL ILEHAVNFED RCNTSQQRK	YIFVIVISIP TFSPALCKGS LETIFNAVML ICNRKVYQAV HSNSGKRTYT RILSVSTKDT	ANIGSLCVSF AFLMYMKFYS WEDETVVEYC RHNKATENKE MYRITVALTS MELEVLE	LQPKKESELG STAFLTICIAV DAEKSNTFLC KKRIIKLLVS LNCVADPILY CFVTETGRYD	IYLFSLSLSD DRYLAVVYPL YDKYPLEKWQ ITVTFVLCFT CFVTETGRYD	Homo sapiens
505	160300	Encephalopsi n	NM_014322	cgagcccg ctcggggaac ggggccggcg gcgctggcg gctgctctc catcagcctc cctgagggaac cctcttcggg cgtggtccat gctctactca cgtacacgga tgtgcttttc tggccatatt agtgaacaag caccttccctg tggtcacctg tgtatacaat gcttctgtgc aagtgaatatg aaaagtgaat agttgacgac tttgtaggaa ctttcatcat aaccttgtgg ttgaacaaaa tgcacacgat tataattttt tactgtaaaa tttgtactgt taattctaga gtatgacaaa cagagggaatc gactcaaaagc tgtatatataa atttccca	cgagagctga cgagcgggcg ccggcgggga ctgctgctgg tactacaagt agcgacctgc ggctgggtgt attgtttcca gccagagtga ctggcggtgg ctaggctgca ttattttctg ctatatcca attttaaatt gtctgttggga gtcactccaa ccagtatttt ctccgactgc cagatcagac ttcaactctt agcgacaaaa tgaaggatgg cctcctgaag tccagcagga acaaattctt gggcatctaa aaattactct ataactgtcg tggactctat atgaaaaaga gaggagtctc tacaaggcaa tctttttctt gccaggggagt tatatatattac	cgccctccg gccacggcta ccatgagcca gtcccatgg tccagggct tgggtccct gggacacctg ttgccacct tcaatttttc caggagcacc ctgtggactg ctgtgctgg tgtgcttttc ctatatcca attttaaatt gtctgttggga gtcactccaa ccagtatttt ctccgactgc cagatcagac ttcaactctt agcgacaaaa tgaaggatgg cctcctgaag tccagcagga acaaattctt gggcatctaa aaattactct ataactgtcg tggactctat atgaaaaaga gaggagtctc tacaaggcaa tctttttctt gccaggggagt tatatatattac	cgccaggcg ctgggacggc cgccccctc gtgctgggc cgcaactcc cttcggggtc gggctgctg aacctgtctg ctgggctgg tctctggga gaaatccaa ggtgccccg tcgtgtgtg atgtgcttaa cgtgatctgc tgtttcgtgc gagcagaaag gaggctgct gtcacagaaa ttttatcatc ccaaagtgtg tgggacctta tggaaatccc gccatatgc gggtgcttta tctaatgtg tctaatatc catcatcatc attttccaaa cgtaacactg tcagtgtcat aaatcctctt agagacaact actcccatat tgttttgttg tctaagacgc atatacccg	cgccggcgcc ggcgggggcg ttcagccccg gtcgggaaca actcactcc acctttacct tgggacgggt gcctatgaac agggccatta tggaacaggt gatgccaacg ggtgtcatag gaagatcttc tggtgctatt tcttgggtg ctctttgcta tttcgaagat tttcgaagat gaggctgct gatggggaca accagtgatg atgttaatcc aattggatgc gttctatgta tcttgggct cataatgaaa tggagattt tcatttcaaa catttttctc ctagaacata tgatcaagtt aaagacgttt gttcgaaaca gtcagcctgg cccaaattgc aatttactgt agatttgctc atgttgtgtt taataaaatt	gggccaatgta cgggcgctga gcacctacga acctgtggt tccgtgtcaa tcgtgtccctg ttagcggcag gttacattcg cctacatctg acatcctgga attcctcctt cccattgcta taaatgatatt ttaaagggtca aatcgaacac cccttttgca cagcagctgg ggccaaaaga aatcactgtc cactttctgc cacttttggga atatcaaacag caggaagagg aaaccacttg tcatttcaaa gaaaaatacct ctgaattttt atcaaggaga tataatgtgca agaccagcac tgccccacac tctttgtcga attccccctgt taaaaaaaa	Homo sapiens

506	160300 Encephalopsi n	NP_055137.1	MYSGNRSGH LVLVLYYKQ GSLFGIVSIA LDVHGLGCTV IQVIKILKYE NTVYNPVYV KKKVTFNSSS atgggcagct accaaggaga gtcattctct aacagcaagt ctggcaggcg acgcctgtgc ttcagccctc ggcagcgaca gtcctcgtg actgtcctgc atcctgttgg gctgacatgg gtctttatcg gtccactcct tccttgctca cgcccgctgc ccgggccacc ccacagtcac MGSLSYSEYN NSKFHSAMYL FSLLAIAIER TVLPLYAKHY VFIVCWLPAP RPLQCWRPGV atgatctgct ggcattgtat gcccactcgg acagcaatgc aacctgacgc gagctgcggg gcactctttg gtcaccaaca	GYWDGGGAAG. RLRTPHLLL TLTVLAYERY DWKSKDANDS KKLAKMCFIL FMIRKFRSL IIFIITSDS tgtactcgga cgctggaac gttgcgccat tccactcggc tggccttcgt agtggtttgc tggccatcgc agagctgccg gcctgccccat ctctctacgc ccatcgtggc cgcgcccgca tctgtgtgct gcccgccttc ctacaaagcc ctacacgtgg gcccgggggtg actcccgccg ggagggcaac TKETLETQET LAGVAFVANT GSDKSCRMIL ILLAIVALV VHSCPILYKA PGHLLPLRS GVQRRRVGT gcagtgctct tagcaaaactc ggggaatatgt aggcgcttaa gggagcgagt gacgcgccaa gcaatgctct tcttttatctg	AEGPAPAGTL VNISLSDLIV IRVHARVIN SFVLFLGCG IFTFLVCWMP LQLLCLRLLR LSVDDSDKTI gtacctgaac gcaggagacg tgtgttgga aatgtacctg agccaatacc ccgggagggc cattgagcgc catgcttctg ccttggtcgg caagcattat cctgtacctg gacgctagcc gcccgccttc ctacaaagcc ctacacgtgg gcccgggggtg actcccgccg tccagctccc ggagggcaac TKETLETQET LAGVAFVANT GSDKSCRMIL ILLAIVALV VHSCPILYKA PGHLLPLRS GVQRRRVGT gagccctagg atcacctagac taggcgcttg cattaccctg catcgctctg gctggccctc ggtgttctac ctccttggcg	SPAPLFSPGT SLFGVTFTV FSMAWRAITY LVVPLGVIAH YIVICFLVNV CQRPKADLPA GVQSLMLIQV RPL cccaacaagg acctcccgcc aaccttctgg tttctgggca ttgctctctg tctgcctcca cacgtggcca ctcactgggg aactgcctgg gtgctgtgcg tggtagacct tggtgacct gcgtggtcgg ctcctcctcc cgtgcacct ttctggacta tgccctgtccc tcgccgtctc caccctgaat ggaggtgctt gacggagggc tggagagggg catgcacatg ga VILCAIIVE NLLVLIAVAR P SASITLSASV VLGGPILGW NCLGHLEACS ADMAAPQTLA LLKTTVTIVLG SLNPNVITYW PTSPTFLEGN TVV cttttcaccg acgacacgta gccccgcgtc ctcggtctgt gacgcctcgt gctgtcaccg gctgtcacc
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510	160314	G Protein-Coupled Receptor GPR103	ENSMPT2217 53	<p>atcccgctca ccattgtcca gaacatttcc gacaactggc tgggggggtgc tttcatttgc</p> <p>aagatgggtgc catttgtcca gtctaccgtt gttgtgacag aaatcctcac tatgacctgc</p> <p>attgtgtgtg aaaggcacca gggacttgtg catcctttha aaatgaagtg gcaatacacc</p> <p>aaccgaaggg ctttcacaat gctagggtgt gtcgtgcttg tggcagtcac ctaggatca</p> <p>cccatgtggc acgtgcaaca acttgagatc aaatatgact tcctatatga aaagggaacac</p> <p>atcgtctgct tagaagagt gaccagccct gtgcaccaga agatctacac caccttcac</p> <p>ctgtcatcct cttctcctg cctcttatgg aagaagaaac gagctgtcat tatgatgtgtg</p> <p>acagtgggtg ctccttttgc tgtgtgctgg gcaccattcc atgttgtcca tatgatgatt</p> <p>gaatacagta attttgaaaa ggaatatgat gatgtcaca tcaagatgat ttttgcctac</p> <p>gtgcaaatga ttggattttc caactccatc tgtaattcca ttgtctatgc atttatgaat</p> <p>gaaaacttca aaaaaaatgt tttgtctgca gtttgttatt gcatagtaaa taaaaacctc</p> <p>tctccagcac aaaggcatgg aaattcagga attacaatga tgcgggaagaa agcaaaagttt</p> <p>tccctcagag agaattccagt ggaggaaacc aaaggagaag cattcagtga tggcaacatt</p> <p>gaagtcaaat tgtgtgaaca gacagaggag aagaaaaagc tcaaacgaca tcttgctctc</p> <p>tttaggtctg aactggctga gaattctct ttagacagtg ggcattaa</p> <p>MKIKYDFLYE KEHLCLEEW TSPVHQIYT TFIIVILFL PLMVMLIYS KIGYELWTKK P</p> <p>RVGDSVLRT IHGKMSKIA RKKRAVIMM VTVALFVAVC WAPFHVVMH IEYSNFEKEY</p> <p>DDVTIKMIFA IVQIIGFSNS ICNPIVYAFM NENFKKNVLS AVCYCIVNKT FSPAQRHNS</p> <p>GITMMRKKAK FSLRENPVEE TKGEAFSDGN IEVKLCQTE EKKLKRHLA LFRSELAENS</p> <p>PLDSG</p>	Homo sapiens
511	160317	Neuropeptide FF 2 Receptor	NM_004885	<p>tctggagcca agtaatgggtg atactgatgc ttccttttct ttgcccgctt cggattctga A</p> <p>gtttcacaaag aatgtacctg ggtgccctt agcgggatat gaatagcttc ttcggaaccc</p> <p>cagcgccag ctggtgcctc ctggaagtg acgtctcatc tgcaccggac aaggaggcgg</p> <p>ggaggagcg cagagcactc agcgtccagc agcgcgcggc gccagcctgg agcggaaagc</p> <p>tggagtggag cagcagtcct gcgggggaca gacgtcggct gggattgagc cggcagactg</p> <p>cgaagagtga ctggagccgg agcagggaca gaacctgttg ctgcagacgg gcttgggtga</p> <p>ttctggttcc tgcgccgac agggctcgcc gggagaggtt catcatgaat gaaaaatggg</p> <p>acacaaactc ttcagaaaaac tggcatccca tctggaatgt caatgacaca agcatatc</p> <p>tgtactcaga tattaatatt acctatgtga actactatct tcaccagcct caagtggcag</p> <p>caatcttcat tatttctac tttctgatct tctttttgtg catgatggga aatactgttg</p> <p>tttgctttat tgtaatgagg aacaaacata tgcacacagt cactaatctc ttcactttaa</p> <p>acctggccat aagtgtttha ctagtggga tattctgcat gcctataaca ctgctggaca</p> <p>atattatagc aggatggcca tttggaaaaa cgaatggcaa gatcagtga ttggtccagg</p> <p>gaatatctgt cgcagcttca gtctttacgt tagttgcaat tgctgtagat aggttccagt</p> <p>gtgtgtgcta cctttttaa ccaagctca ctatcaagac agcgtttgtc attattatga</p> <p>tcactctgggt cctagccatc accattatgt ctccatctgc agtaaatgta catgtgcaag</p> <p>aagaaaaata ttaccagatg agactcaact ccagataaa aaccagtcca gtctactggt</p> <p>gccgggaaga ctggccaaat caggaatga ggaagatcta caccactgtg ctgtttgcca</p> <p>acatctacct ggtccctctc tccctcatgt tcatcatgta tggaaagatt ggaatttcac</p> <p>tcttcagggc tgcagtctct cacacaggca ggaagaacca ggagcagtg cactgtgtgt</p> <p>ccaggaaaaa gcagaagatc attaagatgc tctgtattgt ggccctgctt ttattctct</p>	Homo sapiens

[illegible]

514	160324	G. Protein- Coupled Receptor GPR86/GPR94/ P2Y13	NP_076403.1	<p> tttattgatg agacttcogt agataatgtg gaaatcaaat ttaaccaaga aaaaagatt ggaacaaatg ctctcttata ttttattatc ctggtgtaca gaaaagatta tataaaattt aaatccacat agatctattc ataagctgaa tgaaccattta ctaagagaat gcaacaggat aaaaatggcc actagaggtc attattctt ttttctttt tttttttt aatttcaaga gcatttcaat ttaacattt ggaagaact agtgagaac tatatccct acaaacctcc cctccaaaca ctttctaca ttcttttcca caattcacat aactactctg cttttgtgcc ccttaaatgt agatatgtgc tgaagaagaaa aaaaacgcc caactcttga agtccattgc tgaaaactgc agccaggggt tgaagggat gcagacttga agagtctgag gaactgaagt gggtcagcaa gacctctgaa atcctgggta aaggattttc tccttacaat tacaacagc ctctttcaca ttacaataat ataccatagg aggcacaagc accattatta agccactttg cttacacctt aagtgtgtac aattcaagtg tgagaatgct gtgttaacta ttctttggaa ttctccttct gtccagcaaa tactctaagt atggttaaac atggcaccta ctacgcaatg ccttcttgga ccacaacccc tatccccctg cccaccctc ctcatataaa acaataactt ctactgtttg ggtgtgtgat aggtttctca atgcagatct cctttttcta gttagctata ttcttgactg catccgctaa aaatgtttaa gcttcttgag agacagacat gccagatttt ctggttatct ccataatcc gacctacagt ccatggtcta cagatgtttt aaatagaatt gctattctcg atacatacaa agacgtaatt gctgacccac aatcagtaac atccatattg ggagattttt caaaggatgg tgacctgct tgtatttatt taccttggtta tttttcttg catcctctcg tgattcaaaa aagtaaaatg tggctttctg aaatgatgga taagagtcta catcttctag aaaaaatata taaaggagta gtttaagctct gtaaatgtgc cagcagctcc aacacgacca tcgtagggtg aagcccagct tttcttccat ggcctcaaa gccctagaac ttgcctacct ttctggcctt acctcctagc tacttatcca tctcttgaac tttatactct tgtataaatt tctaactttc agaaaatgcc atactctgt ttggcaccac acatgtatat ttccccctgg tacacttgga agactcttat ccactgtgga aacctatgt tgtcatcact tgggtccatga aatattacct ggccaatc ccaccatcac ctcaaaccca atcacccct cctctgtatg ctgtcacacc tatattatta aacttatcac attgcatgtt aattacttcc tgacctttgt atctactctt ttagtaactg atgtatatat ctgaaaggag agattgtttc attgtgcaat caataaatgt ttgataaaat aaagccc MNTTVMQGFN RSERCPRTIR IVQLVFPALY TWVFLTGILL NTLALWVFVH IPSSSTFIY P LKNTLVADLI MTLMLPKIL SDSHLAPWQL RAFVCRFSSV IFYETMYVGI VLLGLIAFDR FLKIIIRPLRN IFLKKPVFAK TVSIFIWFFL FFISLPNNIL SNKEATPSSV KKCASLKGPL GLKWHQMVNN ICQFIFWTFV ILMLVFYVVI AKKYDYSYRK SKSKDRKNK KLEKVFVVV AVFFVCFAPF HEARVPYTHS QTNKNTDCRL QNQLFIAKET TLFLAATNIC MDPLIYIFLC KKFTKILPCM QGRKTTASSQ ENHSSQTDNI TLG ctccccggg ctggtctggca agcggccctg gtgggtctgc gggggcaggg gcagccttcc A tggtttatct ccaccggcg gatctgctcg tccgcctagg ctccagaagc tggggctcag ggtccggcga ggcaggagc ctgaggccac agcccagagc agcctgagtg cagtcattg ggggcgactg ctccgtggc ccttggtgct ggggttcagc ctgtctggcg gcacccagc ccccagcgtc tacgacgaga gcgggagcac cggaggtggt gatgacagca cgcctcaat cctgcctgcc ccccgcggt acccagcca agtctgtgcc aatgacagtg acacccctga gctcccgagc agctcacggg cactgcttct gggctgggtg cccaccagc tgggtgcccgc </p>	Homo sapiens
515	160329	Proteinase- Activated Receptor 4	NM_003950	<p> gctcccgagc agctcacggg cactgcttct gggctgggtg cccaccagc tgggtgcccgc ctccccggg ctggtctggca agcggccctg gtgggtctgc gggggcaggg gcagccttcc A tggtttatct ccaccggcg gatctgctcg tccgcctagg ctccagaagc tggggctcag ggtccggcga ggcaggagc ctgaggccac agcccagagc agcctgagtg cagtcattg ggggcgactg ctccgtggc ccttggtgct ggggttcagc ctgtctggcg gcacccagc ccccagcgtc tacgacgaga gcgggagcac cggaggtggt gatgacagca cgcctcaat cctgcctgcc ccccgcggt acccagcca agtctgtgcc aatgacagtg acacccctga gctcccgagc agctcacggg cactgcttct gggctgggtg cccaccagc tgggtgcccgc </p>	Homo sapiens

cctctatggg ctggtccttg tggtagggct gccggccaat ggcctggcgc tgtgggtgct
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516	160329 Proteinase- Activated Receptor 4	NP_003941.1	tggggctggg gctgcatcc ctggagactc actgcaagtt cctgcccagg aggtgaggg caccatcc tcaagtccca atgctgtggc ccacacagg ccagagcctg gttggccatt ctcatgccca ccagcttctg gctttgggat gtctcttgag caaccagaat agcaccacca actctgtcc ccaaaaccca tcactagcac ggtcagcct cctgtatcc cctgactgct gggacccctc gccttcctc ctctcacctg caggctgac cttcttttca cttctgtca atgtcaccag ggataagggt ggacaatggg ggggtgggggt ggacagtgtg tgtgtggggg ttcgggtgct gcagacctgg aactccctc tgcagagtg ttggcagcgg gttgtaagcc ttgcacggga cagaccacac ccaccgcaac ctcatccctc cagcactaac cacatccact ctcaaccccg tccccttgc actgaccaca ccacccctg tggccccgc ccccgccact gaacactccc gccctcaacc ccgacccctc cgcactcacc tcccctcgc cgtcgcagcc cgccctacc aactgacca cctcaaccc attgcgcca gtccccacca cagtaccac accctcactg gctcggccct gccccagta tactgacct tccccagcca ctcccttcc gcacttacca ctcccagc cagccctc ccgctgacc gctcctcag cccgcctcc ccgtacagg cagagcggcc gccacctct atgtcgctt cctctgactt taegtggcc cctcctctgc caagcccca gggagacct ccttggctc cagaggtggg agtcgggggtg tggcaggccg cgggtggggg cggcagtggc tccgcgact caccgggcc cgggcaggg gcgcgtcca ctctgttga cgcgggtccg gcgcacagt cccgggcgag tgggctgtgc gtctgactg ttagaagcg agtgccctc aaggtacagg gacgaggtg gcgggtgacc aagtgcagg cgcacgggtc agggaccgg cggggccgg ggtgcgggc cgcgggccta ccgggtctgt agtagctga caggagact ggcagcgcg acgtcctgc caccagcac tcccgagag caggaaacc cagcacgtc agggaccgg tggggtatctg tggggcagcg gcgggcgag gctcgaccg gccagaggg cccggggcg tagctcagg ccagaactg gctgatttca gggataccca ggacgcgtg aacacagaag aaactgtat ccatcttctt ttttctttt actttcttt tttttttt tctctgagc agagtctgc gctgttgc aggctggagt gcagtggcgt gatctcgct cactgcaag cggcctctt ggttcaaat gattctctg cctcagctc ccaagtagt gggataacag gcgccacca cgcacccctg ctaattttt gtattttga tcaagacga gtttccact tctgttgggt cttccatcc actcctgcc tcaagtgat cgcctcgct ggcccttga aacacctc cttttgtgt gtagcacgc cactgggaaa acgtctcagg tggcctctga aacacctc cttttgtgt gtagcacgc atggctgagc atgtgtgggt gggagttag acattcaga tactgtgcaa tcatcacctc tgtctagtta caggacgggt tcttctccc ccaagaaac ccatcgcca tcagcactca ctcccactc cccagcccc tggcaaccac aaattttcc aactctagg atttgcctgt tctgggcatt tcatgtcaat ggaatcatgt actctgtgaa aaaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaaa aaaaaaaaa aaaaa	SILPAPRGYP GQVCANDSDT P VLATQAPRLP STMLMNLAT YGSVLLLAHV ARSDRVLTCHD ALPLDAQASH ALRLTAVVLA SAVAFFVPSN YYVSAEFRDK VRAGLFQFRSP	Homo sapiens
			MWGRLLWPL VLGFSLSGGT QTPSVYDESG STGGGDDSTP LLGWVPTLV PALYGLVLW GLPANGIALW PFIAYHLRGQ RWPFGAACR LATAALYGHM WLMAALALP LTLQRTFRL ARSDRVLTCHD LGCFLPLAM LLCYGTALHT LAASGRRYGH ALRLTAVVLA SPSAWGNLYG AYVPSLALST LNSCVDPFY EGGSRGMGTH SLLQ		

517	160330 G Protein- Coupled- Receptor TM7XN1/GPR56	NM_005682	cggcagcagg gtctcgctct gtacacacagg ctggagtga gtggtgtgat cttgggtcat A	Homo sapiens
			cgtaacctcc acctccggg ttcaagtgt tctcatgctt cagctctccg agtagctggg	
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518	160330 G Protein- Coupled- Receptor TM7XN1/GPR56	NP_005673.1	MT PQSLIQT LFLSLFLIV QGAHGRGHE DFRFC SQRNQ THRSSLHYKP TPDLRISIEN P SEEALT VHAP FPAAH PASRS FPDPRGLYHF CLYWNRHAGR LHLLYGRDF LLSDKASSLL CFQHQEESLA QGPPLATSV TSWSPQNIS LPSAASFTFS FHSPPHTAAH NASVDMCELK RDLQLLSQFL KHPQKASRRP SAAPASQQLQ SLESKLT SVR FMGDMVSFEE DRINATVWKL QPTAGLQDLH IHSRQEEQS EIMEYSVLLP RTLFQRTKGR SGEAEKRLLL VDFSSQALFQ DKNSSQVLGE KVLGIVVQNT KVANLTPVV LTFQHQLOPK NYLSSLVYG EDPTLSSPGH WSSAGCETVR RETQTSFCFN HLTYFAVLNV SSVEVDVHK HTLQCVFWV CVVSALACLIV TIAAYLC SRV PLPCRKRPRD YTIKVHNNLL LAVFLLDTSF LLSEPVALTG SEAGCRASAI FLHFSLLTCL SWMGLEGXNL YRLVVEVFGT YVPGYLLKLS AMGWGFPIFL VTLVALVDVD NYGPIILAVH RTPEGVIYPS MCWIRDSLVS YITNLGLFSL VFLENMAMLA TMVVQILRLR PHTQKWSHVL TLLGLSLVLG LPWALIFFSF ASGTFQLVVL YLFSIITSFQ GFLIFIWYWS MRLQARGGPS PLKNSNDCAR LPISSGSTSS SRI	Homo sapiens
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520	160387 Glucagon- Like Peptide 2 Receptor	NP_004237.1	<p> ggagaagtga aggtgagct gcggaatac tgggtccgct tcttgtagc cgcacactca ggctgcagag cctgtgctt gggaagagc ttcggttcc taggaaatg tcccaagaag ctctcgaaag gagatggcg tgagaagctt cggaagctgc agccctact taacagtggg cggtcctac atctagccat gcaggtctt ggggagctgg gcgcccagcc ccaacaggac catgcagct ggcggcggg cagcagctg tccgagctg gtgagggga tgtcaccatg gccaacaca tggaggagat tctggaagag agtgagatct ag MKLGSSRAGP GRGSAGLPG VHELPMGIPA PWGTSPLSFH KCSLWAPGR PFLTLVLVS P IKQVTGSLLE ETTRKWAQYK QACLRDLKE PSGIFCNGTF DQYVCWPHSS PGNVSVPCPS YLPWSESS GRAYRHCLAQ GTWQTIENAT DIWQDDSECS ENHSFKQNV DRYALLSTLQL MYTVGYSFSL ISLFLALTLL LFLRKLHCTR NYIHMLFAS FILRTLAVLV KDVVFYNSYS KRPDNEGWM SYLSEMTSC RSVQVLLHYF VGANYLWLV EGLYLHLL PTVLPERRLW PRYLLGWAF PVLFPVWGF ARAHLENTGC WTTNGNKKIW WIIRGPMMLC VTWNFFIFLK ILKLLISKIK AHQCFRDYK YRLAKSTLVL IPLLGVHEIL FSFITTDDQVE GFAKLIRLFI QLTLSSFHGF LVALQYGFAN GEVKAELRY WVRFLARHS GCRACVLGKD FRFLGKCPKK LSEGDGAELK RKLQPSLNSG RLLHLAMRGL GELGAQPQQD HARWPRGSSL SECSEGDVTM ANTMEEIIEE SEI </p>	Homo sapiens
521	160388 Latrophilin- 1	NM_014921	<p> ttttttttt ttttttct aatttttggc cggcgcggt gctgggccag gggaaggaag A ggacacggag gccgcctcg tcccgccacc tctaccgcg tccccccag ccccgctcc gggagatgt cggggcgggg gggcggggtt cgcgagcgc caggagagac agctgggccc gacccagag aggcgtgga caggctggtg gtccagcgc tgggtccgc caggtgatgt gggcaaacg ccccgacac gccactgag agctccggc agcaccggc ctgccaccat ggcccgcta gccgcagtgc tctggaatct tctgtccacc gccgtccctg tcaacctggc caccgaagc ctgagccggg cgggctccc gtctgggctg atgcggggg agctggcgtg tgaaggctac cccatcgag cgcggtgccc tgcggtgccc cggcagcgc gtcatcatgg tggagaatgc caactacggg cgcacggag acaagatttg cgtgctgac catgtcacag aggtgtaaca accgcacca gcagtgtac ctgcccggc gtgcggcgtt cctcaagat catgtcacag aggtgtaaca accgcacca gtcgtggtg gtcggcgtt cgtccctca caaagtggag cagaaagtct tctgtgccc ctggaggtg cagtacgact gtgtcccta ccaagtcac ctcgacacac gactcagag accagtctg aggaccctg cagaaggtg tggagccac tgcagccac tgaccgcac tacgtgatc cctggatccc cgatggtg aaggaccgc tgagccggg tgaccgcac ctcgtggag gactacgtg ccgcccgc ctaccgcg gacacatga ctgagtgc ccaaccgtt ggtgggaca ggtttgtg tctacgatg caccaccac taccgctg tacaacaagg agcgcacgc caacatgct aagtatgac tacggacgc tgccgtctc tacaacaagg agcgcacgc caacatgct aagtatgac tacggacgc catcaagagc ggggagacg tcatcaatac cgcaactac catgacacct cgcctaccg ctggggcgga agaccgaca ttgacctggc ggtggacgag aacgggctgt ggttcacta cgccactgag ggcaacaac ggcgctgtt ggtgagccac ctgaacctt acacactgc cttgagggc acgtgggaga cgggttacga caagcgtcg gcatccaac ccttcatggt gtgtgggtc ctgtacgtcc tgcgtccgt gtagctggat gatgacagc aggcggtg caaccggtg gactatgct tcaacacaa tgccaaccg gaggagctg tcagcctac cttcccaac ccctaccagt tcatctctc cgttgactac aacctcgc acaaccagt gtacgtctg aacaactatt tctgtggtgc ctacagcctg gattcggc cgcggacc </p>	Homo sapiens

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525

160397 Latrophilin- NM_012302

2

Homo sapiens

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SEQ ID NO:	LSID	Gene	Source ID	LPID	Peptide	SpeciesName
692	127	5-HT1A Receptor	P08908	595	CAPASFERKNERNAEAKRKM	Homo sapiens
693	127	5-HT1A Receptor	P08908	608	GRIFRAARFRIRKTVKKVE	Homo sapiens
694	127	5-HT1A Receptor	P08908	610	RTPEDRSDPDACTISK	Homo sapiens
695	127	5-HT1A Receptor	P08908	612	RHGASAPAPQPKKSVNGE	Homo sapiens
696	128	5-HT1B Receptor	P28222	585	KQTPNIRTGKRLTRAQUTD	Homo sapiens
697	128	5-HT1B Receptor	P28222	586	SPGSTSSVTSINSRVPD	Homo sapiens
698	128	5-HT1B Receptor	P28222	598	KVRVSDALLEKKKLMA	Homo sapiens
699	128	5-HT1B Receptor	P28222	599	ANLSSAPSQNCSAKD	Homo sapiens
700	129	5-HT1D Receptor	P28221	577	IKLADSALERKRISAA	Homo sapiens
701	129	5-HT1D Receptor	P28221	588	QEASNRSLNATETSEA	Homo sapiens
702	129	5-HT1D Receptor	P28221	589	RIYRAARNRILNPPSL	Homo sapiens
703	129	5-HT1D Receptor	P28221	590	KAQEEMSDCLVNTSQIS	Homo sapiens
704	130	5-HT1E Receptor	P28566	815	RHLSNRSTDSQNSFASC	Homo sapiens
705	130	5-HT1E Receptor	P28566	817	CITEASMAIRPKTITEKM	Homo sapiens
706	130	5-HT1E Receptor	P28566	818	DNDLDHPGERQQISST	Homo sapiens
707	130	5-HT1E Receptor	P28566	2738	CVSDFSTSDPTTEFEK	Homo sapiens
708	130	5-HT1E Receptor	P28566	2739	RIYHAAKSLYQKRGSSR	Homo sapiens
709	131	5-HT1F Receptor	P30939	604	ESGEKSTKSVTSYVL	Homo sapiens
710	131	5-HT1F Receptor	P30939	606	DKCKISEEMSNFLAWLG	Homo sapiens
711	131	5-HT1F Receptor	P30939	864	IAKEEVNGQVLESGE	Homo sapiens
712	131	5-HT1F Receptor	P30939	869	STVRSLSRSEFKHEKSWR	Homo sapiens
713	132	5-HT2A Receptor	CAA01675.1	1106	DAFNWTVDSERNLNSC	Homo sapiens
714	132	5-HT2A Receptor	CAA01675.1	1107	FGLQDDSKVFKEGSC	Homo sapiens
715	132	5-HT2A Receptor	CAA01675.1	1108	PGSYTGRRITMQSISNEQKAC	Homo sapiens
716	132	5-HT2A Receptor	CAA01675.1	1109	CSMVALGKQHSEASKDNSD	Homo sapiens
717	132	5-HT2A Receptor	CAA01675.1	1110	NTIPALAYKSSQLQMGQ	Homo sapiens
718	133	5-HT2B Receptor	P41595	1111	KGIETDVDNPNNTTC	Homo sapiens
719	133	5-HT2B Receptor	P41595	1112	CSSPEKVAMLDGSRKDKA	Homo sapiens
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721	133	5-HT2B Receptor	P41595	1114	CNYRATKSVTLRKRSSK	Homo sapiens
722	133	5-HT2B Receptor	P41595	1187	SGLQTESIPEEMKQIVEEQG	Homo sapiens
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725	134	5-HT2C Receptor	P28335	1117	CNVKVEKKPPVRQIPRV	Homo sapiens
726	134	5-HT2C Receptor	P28335	1118	IGLRDEEKVFVNNTTC	Homo sapiens

727	134	5-HT2C Receptor	P28335	1119	RHTEPVEIKASDNEP	Homo sapiens
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730	134	5-HT2C Receptor	NP_000859.1	1830	DGGRFKFPDGVQNWPAIS	Homo sapiens
731	136	5-HT4 Receptor	CAA73107.1	654	NNIGIIDLEKRFNG	Homo sapiens
732	136	5-HT4 Receptor	CAA73107.1	655	ESRQASADQHSRMR	Homo sapiens
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739	136	5-HT4 Receptor	CAA73107.1	2686	VTAKEHAHQIMLQIR	Homo sapiens
740	138	5-HT6 Receptor	P50406	649	RTPRPGVESADSRRLATK	Homo sapiens
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744	139	5-HT7 Receptor	P34969	658	EVTASPTWDAPPDNASGC	Homo sapiens
745	139	5-HT7 Receptor	P34969	659	KAARKSAKHKFGFPRVE	Homo sapiens
746	139	5-HT7 Receptor	P34969	660	CANLRLKHERKNISIFKR	Homo sapiens
747	139	5-HT7 Receptor	P34969	663	KLAERPERPEFVLRAAC	Homo sapiens
748	272	Adenosine A1 Receptor	AAAI7544.1	8	CHKPSILTYIAFLT	Homo sapiens
749	272	Adenosine A1 Receptor	AAAI7544.1	9	NGSMGEPVVKCEFEKVISM	Homo sapiens
750	272	Adenosine A1 Receptor	AAAI7544.1	10	NKVSASSGDPQKYGKELK	Homo sapiens
751	272	Adenosine A1 Receptor	AAAI7544.1	11	NDHFRCPAPPIDEDLPEER	Homo sapiens
752	272	Adenosine A1 Receptor	P25099	286	CQPKPIDEDLPEEKAE	Rattus norvegicus
753	272	Adenosine A1 Receptor	P25099	302	QPKPIDEDLPEEKAE	Rattus norvegicus
754	272	Adenosine A1 Receptor	AAAI7544.1	303	MPPSISAFQAAYIGIEVL	Homo sapiens
755	273	Adenosine A2a Receptor	P29274	1237	QGNTGLPDVELLSHELKGV	Homo sapiens
756	273	Adenosine A2a Receptor	P29274	1238	MPIMGSSVITVELAIA	Homo sapiens
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758	273	Adenosine A2a Receptor	P11617	1240	RIREFRQTFRIIRSH	Canis familiaris
759	274	Adenosine A2b Receptor	P29275	676	KDSATNNCTEPWDGTTNES	Homo sapiens
760	274	Adenosine A2b Receptor	P29275	677	CRGLQRTELMDHSRTILQRE	Homo sapiens
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765	275	Adenosine A3 Receptor	P33765	683	IFYIIRNKLSNLNSKE	Homo sapiens
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770	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	4	CPRVVLPEEIFFTIS	Homo sapiens
771	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	5	MGYLKPRGSFETIADDIDS	Homo sapiens
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774	376	Alpha 1d-adrenoceptor	AAA35496.1	12	RSTIRSLAEGVKRERGKASE	Homo sapiens
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778	377	Alpha 1b-adrenoceptor	P35368	696	KEMNSKELTRIHSK	Homo sapiens
779	377	Alpha 1b-adrenoceptor	P35368	697	GGSLERSQSRKDSLDGSGC	Homo sapiens
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782	379	Alpha 1c-adrenoceptor	AAA93114.1	1245	GSGMASAKTKTHFSVR	Homo sapiens
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784	379	Alpha 1c-adrenoceptor	AAA93114.1	1247	SSMPRGSARITVSKDQSSC	Homo sapiens
785	379	Alpha 1c-adrenoceptor	AAA93114.1	1248	ESRGLKSGLKTDKSDS	Homo sapiens
786	387	Alpha 2a-adrenoceptor	P08913	1343	ERRPNEGGLPERSAGPG	Homo sapiens
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790	387	Alpha 2a-adrenoceptor	P08913	1347	RVGAAKASRWGRQNRE	Homo sapiens
791	388	Alpha 2b-adrenoceptor	P18089	1348	YKGDQGGPQPRGRPQC	Homo sapiens

792	388	Alpha 2b-adrenoceptor	P18089	1349	RSNRRGPRAKGGPGQGE	Homo sapiens
793	388	Alpha 2b-adrenoceptor	P18089	1350	ASAREVNGHSKSTGEK	Homo sapiens
794	388	Alpha 2b-adrenoceptor	P18089	1351	RGVGAIGGQWRRRAH	Homo sapiens
795	389	Alpha 2c-adrenoceptor	P18825	1352	RAPVGPDGASPTTENG	Homo sapiens
796	389	Alpha 2c-adrenoceptor	P18825	1353	RTGTARPRPPTWSRTR	Homo sapiens
797	389	Alpha 2c-adrenoceptor	P18825	1354	ASRSPGGGRLSRAS	Homo sapiens
798	389	Alpha 2c-adrenoceptor	P18825	1355	RSVEFFLSRRRRARSSVC	Homo sapiens
799	599	Bradykinin B1 Receptor	P46663	798	PMASGRQRRRRQARVTC	Homo sapiens
800	599	Bradykinin B1 Receptor	P46663	799	NYHILASLRTREEVSR	Homo sapiens
801	599	Bradykinin B1 Receptor	P46663	800	RVRGPKDSKTAULT	Homo sapiens
802	599	Bradykinin B1 Receptor	P46663	801	VGRLFRITKVWELYKQC	Homo sapiens
803	600	Bradykinin B2 Receptor	AAB02793.1	794	FRIMKEYSDEGHNVTC	Homo sapiens
804	600	Bradykinin B2 Receptor	AAB02793.1	795	CTMQIMQVLRNEMQKKE	Homo sapiens
805	600	Bradykinin B2 Receptor	AAB02793.1	796	CQDERIIDVTQIASFM	Homo sapiens
806	600	Bradykinin B2 Receptor	AAB02793.1	797	CRSEPIQMENSMTLRTS	Homo sapiens
807	635	Beta-1 adrenoceptor	AAA51667.1	1357	RVFREAGKQVKKIDSC	Homo sapiens
808	635	Beta-1 adrenoceptor	AAA51667.1	1358	CERRFLGGPARPPSPS	Homo sapiens
809	635	Beta-1 adrenoceptor	AAA51667.1	1359	ANGRAGKRPRSLVALRE	Homo sapiens
810	635	Beta-1 adrenoceptor	AAA51667.1	1360	CARRAARRRHATHGDRPRAS	Homo sapiens
811	635	Beta-1 adrenoceptor	AAA51667.1	1361	CLARPGPPSPGAASD	Homo sapiens
812	635	Beta-1 adrenoceptor	AAA51667.1	1362	CNGGAAADSDSLDEP	Homo sapiens
813	640	Beta-2 adrenoceptor	NP_000015.1	2654	KRQLQKIDKSEGRFHV	Homo sapiens
814	640	Beta-2 adrenoceptor	NP_000015.1	2656	GEQSGYHVEQEKENKLLC	Homo sapiens
815	640	Beta-2 adrenoceptor	NP_000015.1	2662	APNRSHAPDHDVTQQR	Homo sapiens
816	640	Beta-2 adrenoceptor	NP_000015.1	2663	VPLVIMVFWVSRVFQE	Homo sapiens
817	643	Beta-3 adrenoceptor	P13945	1390	RGELGRFPPEESPAP	Homo sapiens
818	643	Beta-3 adrenoceptor	P13945	1391	SRS LAPAPVGTCAppe	Homo sapiens
819	643	Beta-3 adrenoceptor	P13945	1392	GVPACGRRPARILLPRE	Homo sapiens
820	643	Beta-3 adrenoceptor	P13945	1393	PSGVPAARSSPAQPRIC	Homo sapiens
821	688	Opsin, blue-sensitive	NP_001699.1	1753	EEEFYLFKNISSVGPWDGPQ	Homo sapiens
822	688	Opsin, blue-sensitive	NP_001699.1	1754	CGPDWYTVGTYRSESYT	Homo sapiens
823	688	Opsin, blue-sensitive	NP_001699.1	1755	NNRNHGLDLRLVTIPS	Homo sapiens
824	688	Opsin, blue-sensitive	NP_001699.1	1756	IMKMVCGKAMTDESDT	Homo sapiens
825	692	Bombesin Receptor Subtype-3	AAA35604.1	20	SITNDTESSSVVSNNTINK	Homo sapiens
826	692	Bombesin Receptor Subtype-3	AAA35604.1	21	KAVVKPLERQPSNAILKTC	Homo sapiens

827	692	Bombesin Receptor Subtype-3	AAA35604.1	22	RDPNKNMTFESCISYPVSKK	Homo sapiens
828	692	Bombesin Receptor Subtype-3	AAA35604.1	23	RTLYKSTLNIPTEEQSHARK	Homo sapiens
829	692	Bombesin Receptor Subtype-3	AAA35604.1	24	KSFQKHFKAKQLFCCKAERPE	Homo sapiens
830	692	Bombesin Receptor Subtype-3	NP_001718.1	2286	NKGWSGDNSPGIEALC	Homo sapiens
831	692	Bombesin Receptor Subtype-3	NP_001718.1	2287	QRQPHSPNQTLISITNDE	Homo sapiens
832	692	Bombesin Receptor Subtype-3	NP_001718.1	2288	RPEPPVADTSLITLAV	Homo sapiens
833	692	Bombesin Receptor Subtype-3	NP_001718.1	2289	SEISVTSFTGCSVKQAEDR	Homo sapiens
834	729	CXC Chemokine Receptor 5	P32302	1382	ELDRLDNVNDTSLVENHLC	Homo sapiens
835	729	CXC Chemokine Receptor 5	P32302	1383	SQGHNNNSLPRCTFSQE	Homo sapiens
836	729	CXC Chemokine Receptor 5	P32302	1384	CWVGVVHRLRQAQRRP	Homo sapiens
837	729	CXC Chemokine Receptor 5	P32302	1385	CQLFPSWRRSSLESENA	Homo sapiens
838	735	C-C Chemokine Receptor 1	P32246	305	TEDYDTTIEFDYGDATPC	Homo sapiens
839	735	C-C Chemokine Receptor 1	P32246	1242	ASMPGLYFSKTQWEFTHTC	Homo sapiens
840	735	C-C Chemokine Receptor 1	P32246	1243	CSLHPHESLREWKLFQA	Homo sapiens
841	735	C-C Chemokine Receptor 1	P32246	1244	TILSVFQDFLTHEC	Homo sapiens
842	737	C-C Chemokine Receptor 3	P51677	1386	CSALYPEDTVVSWRHF	Homo sapiens
843	737	C-C Chemokine Receptor 3	P51677	1387	PEFIFYETEELFEETLC	Homo sapiens
844	737	C-C Chemokine Receptor 3	P51677	1388	SSYQSILFGNDCERSK	Homo sapiens
845	737	C-C Chemokine Receptor 3	P51677	1389	GRYIPFLPSEKLERIS	Homo sapiens
846	737	C-C Chemokine Receptor 3	P51677	1751	DDVGILLCEKADTRALMAQFV	Homo sapiens
847	738	C-C Chemokine Receptor 4	P51680	306	MNATEVTDITQDETIVNSW	Mus musculus
848	738	C-C Chemokine Receptor 4	P51679	348	DESIYSNYLVESIPKPC	Homo sapiens
849	738	C-C Chemokine Receptor 4	P51679	351	DTPSSYTGSTMDHDLHD	Homo sapiens
850	738	C-C Chemokine Receptor 4	P51679	353	LETLVELEVLDQCTFE	Homo sapiens
851	738	C-C Chemokine Receptor 4	P51679	491	RNHTYCKTKYSLNSTWK	Homo sapiens
852	741	C-C Chemokine Receptor 7	P32248	748	CQDEVTDDYIGDNTTVD	Homo sapiens
853	741	C-C Chemokine Receptor 7	P32248	846	PELLYSDLQRSSEQAMRC	Homo sapiens
854	741	C-C Chemokine Receptor 7	P32248	847	QLRQWSSCRHIRRSMISVE	Homo sapiens
855	741	C-C Chemokine Receptor 7	P32248	848	GVKFRNDLFKFLKDLGC	Homo sapiens
856	742	C-C Chemokine Receptor 8	P51685	359	PDIFSSPCDAELIQING	Homo sapiens

857	742	C-C Chemokine Receptor 8	P51685	360	KILHLKRCQNHNKTKAIR	Homo sapiens
858	742	C-C Chemokine Receptor 8	P51685	362	SQIFNYLGRQMPRESC	Homo sapiens
859	742	C-C Chemokine Receptor 8	P51685	493	FVGEKFKHSEIFQKSC	Homo sapiens
860	752	CXC Chemokine Receptor 3	P49682	1371	ENFSSYDYGENESDSC	Homo sapiens
861	752	CXC Chemokine Receptor 3	P49682	1372	CYAHILAVLLVSRGQRRRLRA	Homo sapiens
862	752	CXC Chemokine Receptor 3	P49682	1373	MVLEVSDHQVINDAEVAALL	Homo sapiens
863	752	CXC Chemokine Receptor 3	P49682	1374	CPNQRGLQRQPSSRRD	Homo sapiens
864	753	CXC Chemokine Receptor 4	P30991	1376	TEEMGSGDYDSMKEPC	Homo sapiens
865	753	CXC Chemokine Receptor 4	P30991	1377	KKLRMTDKYRLHLSVAD	Homo sapiens
866	753	CXC Chemokine Receptor 4	P30991	1380	CIISKLSHSGHGQKRKALK	Homo sapiens
867	753	CXC Chemokine Receptor 4	P30991	1381	KILSKGKRGGHSSVSTE	Homo sapiens
868	755	Complement Component 3a Receptor 1	AAC50657.1	25	ENRSLNIVQPPGEMNDRDL	Homo sapiens
869	755	Complement Component 3a Receptor 1	AAC50657.1	26	KIPSGFPIEDHETSPLDNSD	Homo sapiens
870	755	Complement Component 3a Receptor 1	AAC50657.1	27	RKKARQSIQGIIEAAAFSEE	Homo sapiens
871	755	Complement Component 3a Receptor 1	AAC50657.1	28	PQTFQRPASDSLPRGSARLT	Homo sapiens
872	758	Complement Component 5a Receptor 1	P21730	811	DUNTPVDKTSNLTNRVPD	Homo sapiens
873	758	Complement Component 5a Receptor 1	P21730	812	CGVDYSHDKRRERAVAIVRL	Homo sapiens
874	758	Complement Component 5a Receptor 1	P21730	813	CYTFILLRTWSRRATRSIK	Homo sapiens
875	758	Complement Component 5a Receptor 1	P21730	814	QGRLRKSLPSLLRNVLTE	Homo sapiens
876	767	Calcitonin Receptor-like Receptor	Q16602	841	AELESPEDSIQLGVTR	Homo sapiens
877	767	Calcitonin Receptor-like Receptor	Q16602	843	EFVLJPWRPEGKIAEEV	Homo sapiens
878	767	Calcitonin Receptor-like Receptor	Q16602	844	RRNWNQYKIQFGNSFSNSE	Homo sapiens
879	767	Calcitonin Receptor-like Receptor	Q16602	845	RSASVTVSTISDGPYSHDC	Homo sapiens
880	832	Cannabinoid Receptor 1	AAB18200.1	29	NDIQYEDIKGDMAKLG	Homo sapiens
881	832	Cannabinoid Receptor 1	AAB18200.1	30	KENEENIQCGENFMDIE	Homo sapiens
882	832	Cannabinoid Receptor 1	AAB18200.1	31	EDGKVQVTRPDQARMDIR	Homo sapiens

883	832	Cannabinoid Receptor 1	AAB18200.1	32	CEGTAQPLDNSMGDS	Homo sapiens
884	832	Cannabinoid Receptor 1	AAB18200.1	274	MKSILDGLADITFR	Homo sapiens
885	832	Cannabinoid Receptor 1	AAB18200.1	297	NKLSFKENEENIQ	Homo sapiens
886	833	Cannabinoid Receptor 2	CAA52376.1	33	KDGLDSNPMKDYMILSGPK	Homo sapiens
887	833	Cannabinoid Receptor 2	CAA52376.1	34	QDRQVPGMARMLDVRLAKT	Homo sapiens
888	833	Cannabinoid Receptor 2	CAA52376.1	35	KEEAPRSSVTETADGK	Homo sapiens
889	833	Cannabinoid Receptor 2	CAA52376.1	36	RSGEIRSSAHHCLAHWKK	Homo sapiens
890	922	Leukocyte Antigen CD97	NP_001775.1	2644	GRDPPAKDVMGPRQELLC	Homo sapiens
891	922	Leukocyte Antigen CD97	NP_001775.1	2646	CSPGYEVPVGAKTFKN	Homo sapiens
892	922	Leukocyte Antigen CD97	NP_001775.1	2647	FSSFSEIITPTETC	Homo sapiens
893	922	Leukocyte Antigen CD97	NP_001775.1	2648	CRPGWKPRHGIPNNQK	Homo sapiens
894	922	Leukocyte Antigen CD97	NP_001775.1	2649	DGEAGRDPPAKDVMGPR	Homo sapiens
895	922	Leukocyte Antigen CD97	NP_001775.1	2650	ANASLNLSKKALE	Homo sapiens
896	922	Leukocyte Antigen CD97	NP_001775.1	2651	RLSAVNSIFLSHNNTKE	Homo sapiens
897	922	Leukocyte Antigen CD97	NP_001775.1	2652	KLTKQFSEINPDMKKL	Homo sapiens
898	922	Leukocyte Antigen CD97	NP_001775.1	2680	KLVDLMEAPGDVEAL	Homo sapiens
899	922	Leukocyte Antigen CD97	NP_001775.1	2681	RFFDKVQDLGRDSTSS	Homo sapiens
900	941	EMR1 Hormone Receptor	Q14246	1180	RAEYLDIESKVINKEC	Homo sapiens
901	941	EMR1 Hormone Receptor	Q14246	2675	CVMHSWEGHIRTRKPNTK	Homo sapiens
902	941	EMR1 Hormone Receptor	Q14246	2677	CLLNGQVREEYKRWITGKTP	Homo sapiens
903	941	EMR1 Hormone Receptor	Q14246	2678	CLLNGQVREEYKRWITGK	Homo sapiens
904	941	EMR1 Hormone Receptor	Q14246	2679	SGHLSCQGLKASCE	Homo sapiens
905	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1183	GTALANGTGELSEHQQ	Homo sapiens
906	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1184	ADSLIEVFNLHERYYD	Homo sapiens
907	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1185	VRAHRHRGLRPRRQKA	Homo sapiens
908	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1186	DKLRLVIEQKTNLPALNRF	Homo sapiens
909	978	Cholecystokinin A Receptor	P32238	820	AKERKPSSTSSGKYEDSDGC	Homo sapiens
910	978	Cholecystokinin A Receptor	P32238	821	CYLQKTRPPRKLELRQ	Homo sapiens
911	978	Cholecystokinin A Receptor	P32238	822	SANAWRAYDTASAERR	Homo sapiens
912	978	Cholecystokinin A Receptor	P32238	823	CPNPGPPGARGEVGEE	Homo sapiens
913	1103	Corticotropin releasing factor Receptor 2	Q13324	453	CEPILDDKQRKYDLHYRIAL	Homo sapiens
914	1103	Corticotropin releasing	Q13324	502	QLVDHEVHESNEVWC	Homo sapiens

915	factor Receptor 2	1103	Q13324	505	DPEGPYSYCNITLDQIGTCW	Homo sapiens
916	Corticotropin releasing factor Receptor 2	1103	LR43	507	ALLEQYCHTIMLTINLSG	Homo sapiens
917	factor Receptor 2	1240	CAA41734.1	41	SSHHEPRGSISKEC	Homo sapiens
918	Dopamine Receptor D1	1240	CAA41734.1	42	KAKTPSPSDGNATSLAETID	Homo sapiens
919	Dopamine Receptor D1	1240	CAA41734.1	43	CSQPESFFKMSFKRE	Homo sapiens
920	Dopamine Receptor D1	1240	CAA41734.1	44	EDLKKEEAAGIARPLEK	Homo sapiens
921	Dopamine Receptor D5	1241	P21918	1407	PWEEDFWEPDVNAENC	Homo sapiens
922	Dopamine Receptor D5	1241	P21918	1408	CAPDTSLRASIKKETK	Homo sapiens
923	Dopamine Receptor D5	1241	P21918	1409	PNAVTPGNREVNDDEE	Homo sapiens
924	Dopamine Receptor D5	1241	P21918	1410	QTSPDGDPAESVWELDC	Homo sapiens
925	Dopamine Receptor D2	1242	P14416	1403	KRSSRAFRALHRLAPLKGNC	Homo sapiens
926	Dopamine Receptor D2	1242	P14416	1404	CTVIMKSNQSFVNRRRV	Homo sapiens
927	Dopamine Receptor D2	1242	P14416	1405	KPEKNHGAKDHPKIAK	Homo sapiens
928	Dopamine Receptor D2	1242	P14416	1406	GKTRTSLKTMRRKLSQQKE	Homo sapiens
929	Dopamine Receptor D3	1243	P35462	1398	KQRRRKRLTRQNSQC	Homo sapiens
930	Dopamine Receptor D3	1243	P35462	1399	CNSVRPGFPQQTLSPDP	Homo sapiens
931	Dopamine Receptor D3	1243	P35462	1400	CQDTALGGPGFQERGGGE	Homo sapiens
932	Dopamine Receptor D3	1243	P35462	1401	KREEKTRNSLSPTIAP	Homo sapiens
933	Dopamine Receptor D3	1243	P35462	1402	STSLKLGPLQPRGVPLRE	Homo sapiens
934	Dopamine Receptor D4	1244	P21917	1394	VAVAVPLRYNRQGGSR	Homo sapiens
935	Dopamine Receptor D4	1244	P21917	1395	EVARRAKLHGRAPRRP	Homo sapiens
936	Dopamine Receptor D4	1244	P21917	1396	PPSPTPPAPRLPQDPC	Homo sapiens
937	Dopamine Receptor D4	1244	P21917	1397	PPQTPPQTRRRRAKITGRE	Homo sapiens
938	Oploid Receptor, delta 1 (OPRD1)	1267	AAA18789.1	222	DAYPSAFPSAGANASGP	Homo sapiens
939	Oploid Receptor, delta 1 (OPRD1)	1267	AAA18789.1	224	LVDIDRRDPLVVAALHLC	Homo sapiens
940	Oploid Receptor, delta 1 (OPRD1)	1267	AAA18789.1	225	KRCFRQLCRKPCGRPD	Homo sapiens
941	Oploid Receptor, delta 1 (OPRD1)	1267	AAA18789.1	226	SRPREATARERTAC	Homo sapiens
942	Duffy Antigen	1424	AAC50055.1	1411	TENSSQLDFEDVWNSS	Homo sapiens
943	Duffy Antigen	1424	AAC50055.1	1412	NDSFPDGDYDANLEAAAPC	Homo sapiens
944	Duffy Antigen	1424	AAC50055.1	1413	CHASLGHRLGAGQVPG	Homo sapiens

945	1424	Duffy Antigen	AAC50055.1	1415	FGAKGLKKALGMGPGP	Homo sapiens
946	1451	EBV-Induced Gene 2	AAA35924.1	45	KGEAERITCMEYPNFEET	Homo sapiens
947	1451	EBV-Induced Gene 2	AAA35924.1	46	KLFRITAKGNPLTEKSGVNKK	Homo sapiens
948	1451	EBV-Induced Gene 2	AAA35924.1	47	KSAPEENSREMITETQM	Homo sapiens
949	1451	EBV-Induced Gene 2	AAA35924.1	48	CKGYKRVVMRMILKRQ	Homo sapiens
950	1486	Endothelin B Receptor	BAA14398.1	54	GEERGFPDRAITPLLTAE	Homo sapiens
951	1486	Endothelin B Receptor	BAA14398.1	55	RSLAPAEVPGKDRITAGSP	Homo sapiens
952	1486	Endothelin B Receptor	BAA14398.1	56	PRTSPPPCCGGPIEKE	Homo sapiens
953	1486	Endothelin B Receptor	BAA14398.1	57	EEKQSLEEKQSCCLKFKAND	Homo sapiens
954	1488	Endothelin A Receptor	AAB25530.1	49	RYSTNLSNHVDDFTFRGTE	Homo sapiens
955	1488	Endothelin A Receptor	AAB25530.1	50	NRRNGSLRIALSEHLK	Homo sapiens
956	1488	Endothelin A Receptor	AAB25530.1	51	EYRGEQHKTCMLNATSK	Homo sapiens
957	1488	Endothelin A Receptor	AAB25530.1	53	KNHDAQNNHNTDRSSHKD	Homo sapiens
958	1598	Calcium-Sensing Receptor (CASR)	P41180	1425	RPQIEKFREAEERDIC	Homo sapiens
959	1598	Calcium-Sensing Receptor (CASR)	P41180	1426	CHLQEGAKGPLVPDTLUR	Homo sapiens
960	1598	Calcium-Sensing Receptor (CASR)	P41180	1427	GHEESGDRFSNSTAFRPLC	Homo sapiens
961	1598	Calcium-Sensing Receptor (CASR)	P41180	1428	KGIIEGEPTCCFECVECPDG	Homo sapiens
962	1598	Calcium-Sensing Receptor (CASR)	P41180	1429	CSTAAHAFKVAARATLRSN	Homo sapiens
963	1598	Calcium-Sensing Receptor (CASR)	P41180	1430	PQKNAMAHNRNTHQNSLE	Homo sapiens
964	1598	Calcium-Sensing Receptor (CASR)	P41180	1431	RPEVEDPEELSPALVVSSQ	Homo sapiens
965	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1878	ASWGGTPEERLUKVAITMLTA	Homo sapiens
966	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1879	SEDSAPTNDTAANSAS	Homo sapiens
967	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1880	SYESAGYTVLRILPLVL	Homo sapiens
968	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1881	PVFLFLTVIPNGD	Homo sapiens
969	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	2612	EERLKVATIMLTARGIIRFV	Homo sapiens
970	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	2613	ERALSEDSAPTNDTAANSAS	Homo sapiens

971	1681	Like Receptor	Follicle Stimulating Hormone	AAA52477.1	58	QESKVTIPS D L P R N A I E L R	Homo sapiens
972	1681	Receptor	Follicle Stimulating Hormone	AAA52477.1	59	DVLEIV E A D V F S N L P K	Homo sapiens
973	1681	Receptor	Follicle Stimulating Hormone	AAA52477.1	60	R N G H C S S A P R V T S G S T Y	Homo sapiens
974	1681	Receptor	Follicle Stimulating Hormone	AAA52477.1	61	R G Q R S S L A E D N E S S Y S R G F D	Homo sapiens
975	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2231	C H H R I C H C S N R V F L C Q E	Homo sapiens
976	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2232	L R V I Q K G A F S G F G D L E K	Homo sapiens
977	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2233	L Y V M S L L V L N V L A F V V I C	Homo sapiens
978	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2234	C N K S I L R G E V D Y M T Q A R G Q R	Homo sapiens
979	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2236	S D N N N L E E L P N D V F H G A	Homo sapiens
980	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2238	K L V A L M E A S L T P S H C	Homo sapiens
981	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2241	S F E S V I L W L N K N G I Q E I H N C	Homo sapiens
982	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2248	I H S L Q K V L L D I Q D N I N I H T	Homo sapiens
983	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2250	K A N N L L Y I T P E A F Q N L P	Homo sapiens
984	1681	Receptor	Follicle Stimulating Hormone	NP_000136.1	2251	C Y E M Q A Q I Y R T E T S T V H	Homo sapiens
985	1726	G Protein-Coupled Receptor RDC1		AAA62370.1	1437	T N I P S S R K K M V R R V W C	Homo sapiens
986	1726	G Protein-Coupled Receptor RDC1		AAA62370.1	1439	A R A I S A S S D Q E K H S S R K	Homo sapiens
987	1726	G Protein-Coupled Receptor RDC1		AAA62370.1	1440	K Y S A K T G L T K L I D A S R V S E T	Homo sapiens
988	1726	G Protein-Coupled Receptor RDC1		AAA62370.1	1893	P D T Y Y L K T V T S A S N N E T Y C	Homo sapiens
989	1762	Galanin Receptor GalR1		AAA50767.1	192	G N S L V I T V L A R S K P G K P R	Homo sapiens
990	1762	Galanin Receptor GalR1		AAA50767.1	193	P R A S N Q T F C W E Q W P D P R H K K	Homo sapiens

991	1762	Galanin Receptor GalR1	AAA50767.1	194	KKLKNMSKSEASKKTKAQ	Homo sapiens
992	1762	Galanin Receptor GalR1	AAA50767.1	195	GNSLVITV/LARSKP	Homo sapiens
993	1762	Galanin Receptor GalR1	AAA50767.1	196	RKDSHLSDTKENKSRID	Homo sapiens
994	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1250	QTAGELYQRWERYRREC	Homo sapiens
995	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1251	CENPEKNEAFIDQRILIER	Homo sapiens
996	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1253	CRLRSLGEEQRQLPERAFR	Homo sapiens
997	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1276	PTSRGLSSGTLPGPGNEA	Homo sapiens
998	1813	Polypeptide Receptor Gastrin-Releasing Peptide Receptor	P30550	829	CNISSHSADLPVNDWDSHPG	Homo sapiens
999	1813	Gastrin-Releasing Peptide Receptor	P30550	830	SDLHPFHEESTNQTFISC	Homo sapiens
1000	1813	Gastrin-Releasing Peptide Receptor	P30550	831	YNLPVEGNIHVKKQIES	Homo sapiens
1001	1813	Gastrin-Releasing Peptide Receptor	P30550	832	CQPGLIIRSHSTGRSTT	Homo sapiens
1002	1814	Cholecystokinin B Receptor	Q16144	1281	CEPRIRGAGTIRELELAIR	Homo sapiens
1003	1814	Cholecystokinin B Receptor	Q16144	1282	RVRNQGGLPGAVHNGRC	Homo sapiens
1004	1814	Cholecystokinin B Receptor	Q16144	1283	LRFDGSDSDSQSRVR	Homo sapiens
1005	1814	Cholecystokinin B Receptor	Q16144	1284	CRPETGAVGKDSGDCY	Homo sapiens
1006	1834	Glucagon Receptor	P47871	837	DGLLRTRYSGKIGDDL	Homo sapiens
1007	1834	Glucagon Receptor	P47871	838	CGPDGQWVRGPRGQPWRDAS	Homo sapiens
1008	1834	Glucagon Receptor	P47871	839	CQMDGEEIEVQKEVAKMYSS	Homo sapiens
1009	1834	Glucagon Receptor	P47871	840	TSNHRASSSPGHGPPSKE	Homo sapiens
1010	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	206	KLQKWTQKKEGKKLSRMK	Homo sapiens
1011	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	207	DRSLAIRPLALKSNSKVGQ	Homo sapiens
1012	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	208	RMHLADSSGQTKVFSQC	Homo sapiens
1013	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	209	DPHELQLNQSKNNIPRARLK	Homo sapiens
1014	1945	Opsin, green-sensitive	NP_000504.1	1746	QRLAGRHPQDSYEDSTQSS	Homo sapiens
1015	1945	Opsin, green-sensitive	NP_000504.1	1747	CKPFGNVRFDKLAIVG	Homo sapiens
1016	1945	Opsin, green-sensitive	NP_000504.1	1748	KTSCGPDVFGSSVPGVQS	Homo sapiens

1017	1945	Opsh, green-sensitive	NP_000504.1	1750	CILQLFGKKVDDGSELSS	Homo sapiens
1018	1945	Opsh, green-sensitive	NP_000504.1	1767	STRGPEFGPNYHIAPR	Homo sapiens
1019	1945	Opsh, green-sensitive	NP_000504.1	1768	TNGLVLAATMKFKKL	Homo sapiens
1020	1945	Opsh, green-sensitive	NP_000504.1	1769	ELSSASKTEVSSVSSVSP	Homo sapiens
1021	1951	Growth Hormone	Q92847	581	ADLDWDASPGNDSLGD	Homo sapiens
1022	1951	Secretagogue Receptor	Q92847	582	GVEHENGTDPWDINEC	Homo sapiens
1023	1951	Secretagogue Receptor	Q92847	583	KLWRRRRRGDAWVGASL	Homo sapiens
1024	1951	Secretagogue Receptor	Q92847	584	SQRKLSLTKDESSRAW	Homo sapiens
1025	1954	Secretagogue Receptor	Q02643	833	REDESACIQAAEEMPNTILG	Homo sapiens
1026	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	834	CPDFFSHFSSESGAVKRD	Homo sapiens
1027	1954	Hormone Receptor	Q02643	835	VRKLEPAQGSLSHTGSQ	Homo sapiens
1028	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	836	RTEISRKWHGHDPELL	Homo sapiens
1029	2120	Histamine H1 Receptor	P35367	1167	GWNHFMQQTTSVRREDKC	Homo sapiens
1030	2120	Histamine H1 Receptor	P35367	1168	CQHRELINRSLPSFSEIKLR	Homo sapiens
1031	2120	Histamine H1 Receptor	P35367	1169	AGGGSVLKSPSQTPKE	Homo sapiens
1032	2120	Histamine H1 Receptor	P35367	1170	KSPVVFSGQEDDREVDKLYC	Homo sapiens
1033	2120	Histamine H1 Receptor	P35367	1171	TAPGKGKLRSGSNTGLD	Homo sapiens
1034	2120	Histamine H1 Receptor	P35367	1172	KRLRSHSRGWVSGLHMNRE	Homo sapiens
1035	2121	Histamine H2 Receptor	P25021	1173	NSRNETSKGNHTSKC	Homo sapiens
1036	2121	Histamine H2 Receptor	P25021	1174	CITYRIFKVARDAQKR	Homo sapiens
1037	2121	Histamine H2 Receptor	P25021	1175	RDQAKRINHSSWCAA	Homo sapiens
1038	2121	Histamine H2 Receptor	P25021	1176	TAFVVRGLRGDDAINE	Homo sapiens
1039	2121	Histamine H2 Receptor	P25021	1177	HKTSLSRNASQLSRTQSRE	Homo sapiens
1040	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	227	DSNGSAGSEDAQLEPA	Homo sapiens
1041	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	228	KVREDVDVIECSLQFPDDD	Homo sapiens
1042	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	229	RNTVQDPAYLRDIDGMNK	Homo sapiens
1043	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	230	CFPLKMRMERQSTSRVRN	Homo sapiens

1044	2964	(OPRK1) Luteinizing Hormone/Chorionadotro pin Receptor	Q14751	1432	CNTGIRKFPDVTKVFSSEN	Homo sapiens
1045	2964	Luteinizing Hormone/Chorionadotro pin Receptor	Q14751	1433	KMHNGAFRGATGPKTLD	Homo sapiens
1046	2964	Luteinizing Hormone/Chorionadotro pin Receptor	Q14751	1434	CESTVRKVSNKTLVSS	Homo sapiens
1047	2964	Luteinizing Hormone/Chorionadotro pin Receptor	Q14751	1435	FAVRNPELMAINKDTK	Homo sapiens
1048	2964	Luteinizing Hormone/Chorionadotro pin Receptor	Q14751	1436	CKRRAELYRRKDFSAYTSN	Homo sapiens
1049	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	210	ERHITVFRMQLHTRMSNRR	Homo sapiens
1050	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	211	RQRTMIRMSRPHSSGPRRNRD	Homo sapiens
1051	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	212	KHLATEWNTVSKLVM	Homo sapiens
1052	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	213	ENPTGPTESSDRSASSLN	Homo sapiens
1053	3038	G Protein-Coupled Receptor MRG	AAB21255.1	184	ESQISLSCSLCHSGDQEAQ	Homo sapiens
1054	3038	G Protein-Coupled Receptor MRG	AAB21255.1	185	QQQKATRVYAVVQISAPM	Homo sapiens
1055	3038	G Protein-Coupled Receptor MRG	AAB21255.1	186	DKPEVGRNKKAAAGIDPME	Homo sapiens
1056	3038	G Protein-Coupled Receptor MRG	AAB21255.1	187	EQPHSTQHVENILLPREHRVD	Homo sapiens
1057	3057	Melanocortin 3 Receptor (MC3R)	P41968	451	RLHVKRIAALPPADGVAPQ	Homo sapiens
1058	3057	Melanocortin 3 Receptor (MC3R)	P41968	452	DPLIYAFRSLELRNTFRE	Homo sapiens
1059	3057	Melanocortin 3 Receptor (MC3R)	P41968	562	QAPFFSNQSSSAFCEQVFI	Homo sapiens
1060	3057	Melanocortin 3 Receptor (MC3R)	P41968	563	IVHSDYLTFEDQFIQHMDNI	Homo sapiens

1061	3058	(MC3R) Melanocortin 4 Receptor (MC4R)	AAB33341.1	1032	HSNASESLGKGYSDGGC	Homo sapiens
1062	3058	Melanocortin 4 Receptor (MC4R)	AAB33341.1	1033	KRIAVLPGTGAIRQGA	Homo sapiens
1063	3058	Melanocortin 4 Receptor (MC4R)	AAB33341.1	1035	NSTDIDAQSFVNIDN	Homo sapiens
1064	3058	Melanocortin 4 Receptor (MC4R)	AAB33341.1	1469	NSTHRGMHTSLHLWNRSSYR	Homo sapiens
1065	3059	Melanocortin 5 Receptor (MC5R)	P33032	1022	ATEGNLSPNVKNKSSPC	Homo sapiens
1066	3059	Melanocortin 5 Receptor (MC5R)	P33032	1024	NKHLVIADAFVRHIDN	Homo sapiens
1067	3059	Melanocortin 5 Receptor (MC5R)	P33032	1025	MNSSFHLHFDLNLNAT	Homo sapiens
1068	3059	Melanocortin 5 Receptor (MC5R)	P33032	1026	RYHHIMTARPSGAIAG	Homo sapiens
1069	3061	Melanocortin 1 Receptor (MC1R)	AAD41352.1	1036	QGSQRRLGSLNSTPT	Homo sapiens
1070	3061	Melanocortin 1 Receptor (MC1R)	AAD41352.1	1038	EAGALVARAAVLQQLD	Homo sapiens
1071	3061	Melanocortin 1 Receptor (MC1R)	AAD41352.1	1039	ALRYHSIVLPRARQA	Homo sapiens
1072	3061	Melanocortin 1 Receptor (MC1R)	AAD41352.1	1040	CQHAQGIARLHKRQRP	Homo sapiens
1073	3079	Melatonin Receptor type 1a	AAB17720.1	214	HSUKYDKLYSKNSLC	Homo sapiens
1074	3079	Melatonin Receptor type 1a	AAB17720.1	215	CTARVFFVDSSNDVADR	Homo sapiens
1075	3079	Melatonin Receptor type 1a	AAB17720.1	216	QVRQRVKPDRPKLKP	Homo sapiens
1076	3079	Melatonin Receptor type 1a	AAB17720.1	217	DSSNDVADRVKWKPSPLMTN	Homo sapiens
1077	3080	Melatonin Receptor type 1b	P49286	930	AVRPGWSGAGSARPSR	Homo sapiens
1078	3080	Melatonin Receptor type 1b	P49286	931	LVAIFYDGWALGEEHC	Homo sapiens
1079	3080	Melatonin Receptor type 1b	P49286	932	LVLQARRKAKPESRLC	Homo sapiens
1080	3080	Melatonin Receptor type 1b	P49286	933	CIQDASKGSHAEGLQSPA	Homo sapiens
1081	3080	Melatonin Receptor type 1b	P49286	934	GEMAPQIPEGLFVTSY	Homo sapiens
1082	3081	Melatonin-Related Receptor	Q13585	751	LAARDPAGQNPNDQLAE	Homo sapiens
1083	3081	Melatonin-Related Receptor	Q13585	752	ARARAHARDQAREQDRAHAC	Homo sapiens
1084	3081	Melatonin-Related Receptor	Q13585	753	DRASGHPKPHSRSSAY	Homo sapiens
1085	3081	Melatonin-Related Receptor	Q13585	754	HPKPAAADNPELSASHC	Homo sapiens

1086	3081	Melatonin-Related Receptor	Q13585	755	DDSDLPESASSPAAAGPT	Homo sapiens
1087	3093	Metabotropic Glutamate Receptor 1	Q13255	879	DDYKIQMNKSGVVRVC	Homo sapiens
1088	3093	Metabotropic Glutamate Receptor 1	Q13255	880	CRSNITLNIIFRRKKAG	Homo sapiens
1089	3093	Metabotropic Glutamate Receptor 1	Q13255	881	DTSTKTLNVVEEEDA	Homo sapiens
1090	3093	Metabotropic Glutamate Receptor 1	Q13255	882	ERFKLLQEVVVEHERE	Homo sapiens
1091	3094	Metabotropic Glutamate Receptor 2	Q14416	891	DFVRASLSRGADGSRHIC	Homo sapiens
1092	3094	Metabotropic Glutamate Receptor 2	Q14416	892	CVATSEKVGGRAMSRAAFEG	Homo sapiens
1093	3094	Metabotropic Glutamate Receptor 2	Q14416	893	CAAHSRLRAVPFEQESK	Homo sapiens
1094	3094	Metabotropic Glutamate Receptor 2	Q14416	894	CDAMRPVNGRRLYKDF	Homo sapiens
1095	3094	Metabotropic Glutamate Receptor 2	Q14416	895	DAPFRPADTHNEVRFDR	Homo sapiens
1096	3094	Metabotropic Glutamate Receptor 2	Q14416	896	GKETAPERREVVTLC	Homo sapiens
1097	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	897	GGLPINEKGTGTEEC	Homo sapiens
1098	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	898	EFVRASLTKVDEAEYMC	Homo sapiens
1099	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	899	RSNIRKSYDSVIRELL	Homo sapiens
1100	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	900	CDKHLAIDSSNYEGES	Homo sapiens
1101	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	902	GTRRYTLAEKRETVILKC	Homo sapiens
1102	3096	Metabotropic Glutamate Receptor 4	Q14833	909	PSSLGKPKGHPHMSIRID	Homo sapiens
1103	3096	Metabotropic Glutamate Receptor 4	Q14833	910	CGSGGPPITKPERVVG	Homo sapiens
1104	3096	Metabotropic Glutamate Receptor 4	Q14833	911	CKLSRHALKKGSHVKK	Homo sapiens
1105	3096	Metabotropic Glutamate Receptor 4	Q14833	913	CPRMDPVDGTQLLYI	Homo sapiens

1106	3096	Metabotropic Glutamate Receptor 4	Q14833	914	RIERMHWPGSGGQLPRSC	Homo sapiens
1107	3097	Metabotropic Glutamate Receptor 5	P41594	883	KDYFDYINVGSWDNGEL	Homo sapiens
1108	3097	Metabotropic Glutamate Receptor 5	P41594	884	KMDDDEVVSKSNIIRSVC	Homo sapiens
1109	3097	Metabotropic Glutamate Receptor 5	P41594	885	GETLRYKDRRLAQHKSEIC	Homo sapiens
1110	3097	Metabotropic Glutamate Receptor 5	P41594	886	NPNQTAVIKPFPKSTE	Homo sapiens
1111	3097	Metabotropic Glutamate Receptor 5	P41594	887	KALYDVAEAEHEHPAPA	Homo sapiens
1112	3097	Metabotropic Glutamate Receptor 5	P41594	888	RSPSPISLTHRAGSASRTD	Homo sapiens
1113	3097	Metabotropic Glutamate Receptor 5	P41594	889	RESPAAGPEAAAAKPD	Homo sapiens
1114	3098	Metabotropic Glutamate Receptor 6	O15303	903	QALIRGRGDGDEVGVRC	Homo sapiens
1115	3098	Metabotropic Glutamate Receptor 6	O15303	904	KLTSSTGTSDDSTRKC	Homo sapiens
1116	3098	Metabotropic Glutamate Receptor 6	O15303	905	DVEALQWSGDPHEVPSSLC	Homo sapiens
1117	3098	Metabotropic Glutamate Receptor 6	O15303	906	RFQVDEFTCEACPGDM	Homo sapiens
1118	3098	Metabotropic Glutamate Receptor 6	O15303	907	GARPPHSVIDYEEQRT	Homo sapiens
1119	3099	Metabotropic Glutamate Receptor 7	Q14831	917	CIAQSVRIQGERKDRIDFD	Homo sapiens
1120	3099	Metabotropic Glutamate Receptor 7	Q14831	918	NDEDIKQILAAAKRAD	Homo sapiens
1121	3099	Metabotropic Glutamate Receptor 7	Q14831	921	NIEDMQWKGKGVREIPASVC	Homo sapiens
1122	3099	Metabotropic Glutamate Receptor 7	Q14831	2693	IKQLLDTPNRAVVI	Homo sapiens
1123	3099	Metabotropic Glutamate Receptor 7	Q14831	2694	DPPNIIDYDEHKTM	Homo sapiens
1124	3100	Metabotropic Glutamate Receptor 8	O00222	922	CANGDPPIFTKPKIS	Homo sapiens
1125	3100	Metabotropic Glutamate	O00222	923	CPRMSTIDGKELLYIRA	Homo sapiens

1126	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	924	KVEDMQWAHREHTHPASVC	Homo sapiens
1127	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	925	CESLEINTSSIKTITSYS	Homo sapiens
1128	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	1894	KFYWILTMQQRTHSQEVAHS	Homo sapiens
1129	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	231	DGNLSDPCGPNRINLGRDS	Homo sapiens
1130	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	232	DRTNHGLENLAEETAPLP	Homo sapiens
1131	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	233	IKALVTIPETTFQTVS	Homo sapiens
1132	3212	Receptor 8	Opioid mu-type Receptor	AAA20580.1	234	RIRQNTRDHPSTANTVDR	Homo sapiens
1133	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1325	SERSQPGAEQSPETPPGRC	Homo sapiens
1134	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1326	CRAPRLLQAYSWKEEE	Homo sapiens
1135	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1327	SSEGEPEGSEVVIKMP	Homo sapiens
1136	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1328	KQPPRSSPNTVKRPTKKGRD	Homo sapiens
1137	3223	Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1329	CRWDKRRWRKIPKRPQS	Homo sapiens
1138	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1330	EHNKIQNGKAPRDPVTENC	Homo sapiens
1139	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1331	DSTSVAVASNMIRDDE	Homo sapiens
1140	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1332	ENTVSTSLGHSKDENSQKTC	Homo sapiens
1141	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1333	DEQNIVARKIVKMTK	Homo sapiens
1142	3224	Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1831	RIKKDKKEPVANQDDPVSPSL	Homo sapiens
1143	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	218	SRSRVHKKRPEGPKEKKAKT	Homo sapiens
1144	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	219	KKRPPGGRRPGGLRNGKLEEA	Homo sapiens
1145	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	220	DKDTSNESSGSAIQNTKER	Homo sapiens
1146	3226	Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	221	RPAANVARKFASIRNQVRK	Homo sapiens

1147	3227	Muscarinic Acetylcholine Receptor M5	P08912	1334	KAEKRKPAHRLRSC	Homo sapiens
1148	3227	Muscarinic Acetylcholine Receptor M5	P08912	1335	CSSYPSEDEDEKPAID	Homo sapiens
1149	3227	Muscarinic Acetylcholine Receptor M5	P08912	1336	KESPGEEFSAEETETFV	Homo sapiens
1150	3227	Muscarinic Acetylcholine Receptor M5	P08912	1337	KFRLVVKADGNQETNGC	Homo sapiens
1151	3227	Muscarinic Acetylcholine Receptor M5	P08912	1338	KEPSTKGLNPNPSHQM	Homo sapiens
1152	3378	Tachykinin Receptor 3	NP_001050.1	1757	PAAETWIDGGGVGAD	Homo sapiens
1153	3378	Tachykinin Receptor 3	NP_001050.1	1759	PSQPWANLTNQFVQPSWR	Homo sapiens
1154	3378	Tachykinin Receptor 3	NP_001050.1	1760	SRKKRATPRDPSFNGC	Homo sapiens
1155	3378	Tachykinin Receptor 3	NP_001050.1	2265	ADAVNLTAASLAAGAA	Homo sapiens
1156	3378	Tachykinin Receptor 3	NP_001050.1	2290	SPSALGLPVASAPSPQP	Homo sapiens
1157	3380	Neuromedin B Receptor	P28336	824	ERDFLPASDGTITELVIRC	Homo sapiens
1158	3380	Neuromedin B Receptor	P28336	825	KTUKSAHNLPGEYNE	Homo sapiens
1159	3380	Neuromedin B Receptor	P28336	826	SEVARISLDNSSFTAC	Homo sapiens
1160	3380	Neuromedin B Receptor	P28336	828	CGRKSYQERGTSYLLSSA	Homo sapiens
1161	3404	Neuropeptide Y Receptor Type 2	P49146	1057	RGELVPDPELIDST	Homo sapiens
1162	3404	Neuropeptide Y Receptor Type 2	P49146	1058	CIVYHLESKISKIRISF	Homo sapiens
1163	3404	Neuropeptide Y Receptor Type 2	P49146	1059	REYSLEIIPDFEIVAC	Homo sapiens
1164	3404	Neuropeptide Y Receptor Type 2	P49146	1060	NDHYHGRRRQKTKMLVC	Homo sapiens
1165	3404	Neuropeptide Y Receptor Type 2	P49146	1061	CEQRLDAIHSEVSVTFKAKK	Homo sapiens
1166	3404	Neuropeptide Y Receptor Type 2	P49146	2297	MGPIGAEADENQIVTEEMKVE	Homo sapiens
1167	3404	Neuropeptide Y Receptor Type 2	P49146	2298	SEVSVTFKAKKNLEVRKNSG	Homo sapiens
1168	3405	Neuropeptide Y Receptor Type 4	P50391	1068	CVTVRQKEKANVTNLL	Homo sapiens
1169	3405	Neuropeptide Y Receptor Type 4	P50391	1069	KNHSKALEFLADKVC	Homo sapiens
1170	3405	Neuropeptide Y Receptor Type 4	P50391	1070	CYARIYRRLQRQGRVFHKG	Homo sapiens

1171	3405	Type 4 Neuropeptide Y Receptor	P50391	1071	CQQSAPLEESEHLPLST	Homo sapiens
1172	3405	Type 4 Neuropeptide Y Receptor	P50391	2275	SEHCQDSVDVMVFVTS	Homo sapiens
1173	3406	Type 4 Neuropeptide Y Receptor	Q15761	1072	MKKRNQKTTVNFLGN	Homo sapiens
1174	3406	Type 5 Neuropeptide Y Receptor	Q15761	1073	CGLSNKENRLEENEMI	Homo sapiens
1175	3406	Type 5 Neuropeptide Y Receptor	Q15761	1074	NLTLPSSKSGPQVKL	Homo sapiens
1176	3406	Type 5 Neuropeptide Y Receptor	Q15761	1075	SFIKKHRRRYSKKTAC	Homo sapiens
1177	3406	Type 5 Neuropeptide Y Receptor	Q15761	1076	PERPSQENHSRILPEN	Homo sapiens
1178	3406	Type 5 Neuropeptide Y Receptor	Q15761	1077	CFEIKPEENS DVHEL RV	Homo sapiens
1179	3408	Type 5 Neurotensin Receptor Type 1	P30989	935	RVLAAPSSSELDVNTDIYS	Homo sapiens
1180	3408	Type 5 Neurotensin Receptor Type 1	P30989	936	CHPFKAKTLMRSRTKK	Homo sapiens
1181	3408	Type 5 Neurotensin Receptor Type 1	P30989	937	GEQNR SADGGQHAGGLVC	Homo sapiens
1182	3408	Type 5 Neurotensin Receptor Type 1	P30989	938	RQA AEQGGQVCTVGG EHS	Homo sapiens
1183	3408	Type 5 Neurotensin Receptor Type 1	P30989	939	CPVWRRRRKRPAFSRKADS	Homo sapiens
1184	3452	Type 5 Oplate Receptor-Like 1 (OPRL1)	P41146	940	CHPIRALDVRTSSKAQA	Homo sapiens
1185	3452	Type 5 Oplate Receptor-Like 1 (OPRL1)	P41146	941	PVAIMGSAQVEDEEIEC	Homo sapiens
1186	3452	Type 5 Oplate Receptor-Like 1 (OPRL1)	P41146	942	GVQPSSETAVAILRFC	Homo sapiens
1187	3452	Type 5 Oplate Receptor-Like 1 (OPRL1)	P41146	943	CASALRRDVQVSDRVRSIAK	Homo sapiens
1188	3513	Type 5 Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2123	TPEPRPRTQPMASPRGLTFC	Homo sapiens
1189	3513	Type 5 Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2124	TAVASLKG RQGIYTE	Homo sapiens

1190	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2125	EMQTDINGGSLKPVRTAAK	Homo sapiens
1191	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2126	CSLGFQSPRKEIQWES	Homo sapiens
1192	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2127	SEGSDASTIEHTASESC	Homo sapiens
1193	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2128	NPASGKVSQVGGQTSD	Homo sapiens
1194	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1486	CKKLHIPLKQNDLDIRIK	Homo sapiens
1195	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1500	KIVKPLWTSFIQSVYSKLL	Homo sapiens
1196	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1502	TAITKKIFKSHLKSSRNSTS	Homo sapiens
1197	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1503	VKKSSRNIFSIVFFVC	Homo sapiens
1198	3582	Oxytocin Receptor	CAA46097.1	244	AEGNRTAGPPRNEALARVE	Homo sapiens
1199	3582	Oxytocin Receptor	CAA46097.1	245	RLAVLATWLGCLVASAP	Homo sapiens
1200	3582	Oxytocin Receptor	CAA46097.1	246	PEGAAAGDGGRRVALAR	Homo sapiens
1201	3582	Oxytocin Receptor	CAA46097.1	247	YLGRRILGETSASKSNSS	Homo sapiens
1202	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	854	MQRIGDVLGSSDFRR	Homo sapiens
1203	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	855	ARGGRVTCCHDTSAPEL	Homo sapiens
1204	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	856	KPAYGTSGGLPRAKRK	Homo sapiens
1205	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	857	TGSPATPARRRLGLRRSD	Homo sapiens
1206	3595	Purinergic Receptor P2Y1	CAA07339.1	386	RYSGVVYPLKSLGRLKKIN	Homo sapiens
1207	3595	Purinergic Receptor P2Y1	CAA07339.1	387	SGTGVKKNKTITCYD	Homo sapiens
1208	3595	Purinergic Receptor P2Y1	CAA07339.1	388	RALYKDLDNSPLRKS	Homo sapiens
1209	3595	Purinergic Receptor P2Y1	CAA07339.1	389	DTFRRRLSRATRKASRRSE	Homo sapiens
1210	3596	Purinergic Receptor P2Y5	P43657	850	FVQSTHSQGNNAASEAC	Homo sapiens
1211	3596	Purinergic Receptor P2Y5	P43657	851	MVLKTLTKPVTLRSKI	Homo sapiens
1212	3596	Purinergic Receptor P2Y5	P43657	852	TIGNSIKMKNNWSVRRSD	Homo sapiens
1213	3596	Purinergic Receptor P2Y5	P43657	853	SEVHGAENFIQHNLQTLK	Homo sapiens
1214	3597	Purinergic Receptor P2Y6	Q15077	874	CTSRRLTRTAVYTLN	Homo sapiens
1215	3597	Purinergic Receptor P2Y6	Q15077	875	AQERRGKAARMAMVVV	Homo sapiens

1216	3597	Purnergic Receptor P2Y6	Q15077	876	TKTAYLAVRSTPGVPC	Homo sapiens
1217	3597	Purnergic Receptor P2Y6	Q15077	877	KKFRIRPHELLQKLTAK	Homo sapiens
1218	3597	Purnergic Receptor P2Y6	Q15077	2726	CHPLAPWHKRGGRRAAW	Homo sapiens
1219	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	870	CFRMKMRSETAIFTN	Homo sapiens
1220	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	871	RTLKRPATLSQIGTNKK	Homo sapiens
1221	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	872	ESFQKSFYNAHIRMES	Homo sapiens
1222	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	873	KTETPLTKPSLPAIQEE	Homo sapiens
1223	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	1895	SSLRPRRLGNATANNTCIVD	Homo sapiens
1224	3638	Parathyroid Hormone Receptor 2 (PTH2)	AAC50157.1	248	KAKVQCELNITAQLQEGE	Homo sapiens
1225	3638	Parathyroid Hormone Receptor 2 (PTH2)	AAC50157.1	249	ESLIMQDDPQNSIEATSVDK	Homo sapiens
1226	3638	Parathyroid Hormone Receptor 2 (PTH2)	AAC50157.1	250	NSEQDCLPHSFHEETKE	Homo sapiens
1227	3638	Parathyroid Hormone Receptor 2 (PTH2)	AAC50157.1	251	EETKEDSGRQGGDDILMEKPS	Homo sapiens
1228	3640	Parathyroid Hormone Receptor 1 (PTH1)	Q03431	761	CEKRLKEVLQRPASIMESDK	Homo sapiens
1229	3640	Parathyroid Hormone Receptor 1 (PTH1)	Q03431	762	ESEEDKEAPTGSRYRGRPC	Homo sapiens
1230	3640	Parathyroid Hormone Receptor 1 (PTH1)	Q03431	763	LYSGATLDEAERLIEEELR	Homo sapiens
1231	3640	Parathyroid Hormone Receptor 1 (PTH1)	Q03431	765	KDDGFLNGSCSGLDEEASG	Homo sapiens
1232	3732	PACAP Receptor Type 1	P41586	944	CLEKIGRANELMGFNDSS	Homo sapiens
1233	3732	PACAP Receptor Type 1	P41586	945	CPFLFRIFNPQVWETET	Homo sapiens
1234	3732	PACAP Receptor Type 1	P41586	946	DSNSLDLSDMGVVSRLNC	Homo sapiens
1235	3732	PACAP Receptor Type 1	P41586	948	IKRKWRSWKVNRIFYAVD	Homo sapiens
1236	3732	PACAP Receptor Type 1	P41586	2292	ESDFGDSNSLDLSDMGVVSRL	Homo sapiens
1237	3844	Apelin Receptor	AAA18954.1	62	RITGDLENTIKVQC	Homo sapiens
1238	3844	Apelin Receptor	AAA18954.1	63	RSSREKRRSADIFIAS	Homo sapiens
1239	3844	Apelin Receptor	AAA18954.1	64	QTIAGHFRKERIEGLKRRR	Homo sapiens
1240	3844	Apelin Receptor	AAA18954.1	65	GPNMKGKGGEGMHEKSIPIYSQ	Homo sapiens

1241	3845	Chemokine-Like Receptor 1 (CMKLR1)	LR39	447	RMEDDYNTSISYGDEYPD	Homo sapiens
1242	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	448	DSIVVLEDLSPEARVTR	Homo sapiens
1243	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	449	LTIVCKLHRNRLAKTKPKF	Homo sapiens
1244	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	450	RSFTKMSSMINERTSMINERE	Homo sapiens
1245	3846	Sphingolipid Receptor Edg1	AAA52336.1	1010	TRSRRLTRKNISKASRSSE	Homo sapiens
1246	3846	Sphingolipid Receptor Edg1	AAA52336.1	1011	CPSGDSAGKFKRPIAG	Homo sapiens
1247	3846	Sphingolipid Receptor Edg1	AAA52336.1	1012	CPSGDSAGKFKRPIAGME	Homo sapiens
1248	3846	Sphingolipid Receptor Edg1	AAA52336.1	1013	RSKSDNSSHPQKDEGD	Homo sapiens
1249	3847	Sphingolipid Receptor Edg3	Q99500	1028	ERHLTMIKMRPYDANK	Homo sapiens
1250	3847	Sphingolipid Receptor Edg3	Q99500	1029	LVKSSRKVANHNINSE	Homo sapiens
1251	3847	Sphingolipid Receptor Edg3	Q99500	1030	SPKVKEDLPHTDPSSC	Homo sapiens
1252	3847	Sphingolipid Receptor Edg3	Q99500	1031	CLVRGARGARASPIQPALD	Homo sapiens
1253	3847	Sphingolipid Receptor Edg3	Q99500	1752	REHYQYVGKLAGRLKEASE	Homo sapiens
1254	3848	C-C Chemokine Receptor 9	P51686	958	RAHTWREKRLLYSKMVC	Homo sapiens
1255	3848	C-C Chemokine Receptor 9	P51686	959	KEESGIAICTMVYPSDEST	Homo sapiens
1256	3848	C-C Chemokine Receptor 9	P51686	960	QAKKSSKHALKVTIT	Homo sapiens
1257	3848	C-C Chemokine Receptor 9	P51686	961	GERFRRLVTKLNLC	Homo sapiens
1258	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	74	ENYSYDLDVYSLESDLEEK	Homo sapiens
1259	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	75	RDTVEFNHHTLCYNNFQKH	Homo sapiens
1260	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	76	SKKFQARFRSSVAEILK	Homo sapiens
1261	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	77	GTVSEQLRNSETKNLC	Homo sapiens
1262	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1087	HPLRRRISURLSAYAV	Homo sapiens
1263	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1088	CEEFWGSQERQRQLYA	Homo sapiens
1264	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1089	SYVRVSVKLRNRVWPGC	Homo sapiens
1265	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1090	CVTGSQADWDRRRRR	Homo sapiens
1266	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1091	DSFREELRKLVAWPRKIA	Homo sapiens

1267	3851	Receptor 10 (GPR10)	AAA91630.1	78	GCIPSSLAQRARSPSD	Homo sapiens
1268	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	79	ENISAAVSSRVPAVEPEPE	Homo sapiens
1269	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	307	STCSWVRPLTKNNAA	Homo sapiens
1270	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	308	QSEATKLVITGLIVAS	Homo sapiens
1271	3852	CX3C Chemokine Receptor 1	AAA91783.1	84	KQKENECLGDYPEVLQE	Homo sapiens
1272	3852	CX3C Chemokine Receptor 1	AAA91783.1	85	SMNNRTVQHGVITSL	Homo sapiens
1273	3852	CX3C Chemokine Receptor 1	AAA91783.1	86	ETLKLYDFFPSCDMRKDLR	Homo sapiens
1274	3852	CX3C Chemokine Receptor 1	AAA91783.1	87	GRSVHVDFFSSESQIRSRHGS	Homo sapiens
1275	3853	Fractalkine Receptor 1	NP_005281.1	1511	CLKNYDFGSSTETSDSHLTK	Homo sapiens
1276	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1512	KALSTFIHAEDFARRRKRS	Homo sapiens
1277	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1612	ATSPNSDIRETHSHVP	Homo sapiens
1278	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1613	LMGALHFKPGSRRLLD	Homo sapiens
1279	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1615	GLPTLLSRELTUDDKPYC	Homo sapiens
1280	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	93	DRYMAIVQPKYAKELKNTC	Homo sapiens
1281	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	94	KDPDKDSTPATCLKISD	Homo sapiens
1282	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	95	GRTSKLKPVKKEKSIR	Homo sapiens
1283	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	96	RNYLPSLRKRSFRSGSLR	Homo sapiens
1284	3855	G Protein-Coupled Receptor GPR18	AAB00316.1	97	KVSREKAKKMI/AASWIFD	Homo sapiens
1285	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	98	DGRTVRRITMINIVPRTKVK	Homo sapiens

1286	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	99	RRGMKETFCMISSMKC	Homo sapiens
1287	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	100	KTITKDSIYDSFDREAKEKK	Homo sapiens
1288	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1152	ALLFSQDGGQREGQRRRC	Homo sapiens
1289	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1153	SGDEEDAYSAEPLPELC	Homo sapiens
1290	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1154	ALLDTADLLAARERSC	Homo sapiens
1291	3856	G Protein-Coupled Receptor GPR2/CCRI10	P46092	1155	RRLRGSSPSGPQRRRC	Homo sapiens
1292	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	101	KGSGRHHLSAGPHALIQ	Homo sapiens
1293	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	102	RTNASGLEVPFLHFLARLDE	Homo sapiens
1294	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	103	SRPGLLHQGRQRRVRAMQ	Homo sapiens
1295	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	104	GQHGEREPSSGDVVSMPHRSS	Homo sapiens
1296	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	105	SERQARFSSQSGETGEVQAC	Homo sapiens
1297	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	106	DPYTVRSKGPLNGC	Homo sapiens
1298	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	107	NSTLDGNQSSHFPFCLL	Homo sapiens
1299	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	108	CASQTTANDPYTVRSK	Homo sapiens
1300	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	109	EINMQSESNTVRRDDIDD	Homo sapiens
1301	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	111	RRAVKRHRERRERQKRVRFM	Homo sapiens
1302	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	112	TRQKFQKVLKSKMIKKR	Homo sapiens
1303	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	113	DPKRNKKITFEDSEIREKR	Homo sapiens
1304	3860	G Protein-Coupled Receptor SLG/MCHI1	AAH01736.1	1532	CAPGQGGRRWRLPQPAWVEG	Homo sapiens
1305	3860	G Protein-Coupled	AAH01736.1	1533	EASLLPTGPNASNTSDGPDN	Homo sapiens

1306	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1539	KGVGRAVGLGGGCGQATE	Homo sapiens
1307	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1565	RMTSSVAPASQRSIRLTKR	Homo sapiens
1308	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1567	RAVSNAGTAEERTESKG	Homo sapiens
1309	3861	Receptor SLC/MCH1 G Protein-Coupled	O00155	376	RGLQLPGGQDSQCGEEP	Homo sapiens
1310	3861	Receptor GPR25 G Protein-Coupled	O00155	377	CRISRLRRPPHVGRARRNS	Homo sapiens
1311	3861	Receptor GPR25 G Protein-Coupled	O00155	378	RTGRLARRISSASSLSRDD	Homo sapiens
1312	3861	Receptor GPR25 G Protein-Coupled	O00155	483	DYGLDGLEELELCPAGD	Homo sapiens
1313	3862	Receptor GPR25 G Protein-Coupled	AAB60402.1	118	TVYCLLGDAHSPPLYT	Homo sapiens
1314	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	119	EGTGPAAPLPSPKAWD	Homo sapiens
1315	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	120	HFAAVFCIGSAEMSL	Homo sapiens
1316	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	121	GLITCGVVVPLSKNH	Homo sapiens
1317	3863	Receptor GPR3 G Protein-Coupled	O00270	1157	REPEKQPKLQRAQALVTLV	Homo sapiens
1318	3863	Receptor GPR31 G Protein-Coupled	O00270	1158	CHSFYSRADGFSFIWQEA	Homo sapiens
1319	3863	Receptor GPR31 G Protein-Coupled	O00270	1159	QNLGSCRALCAVAHTSDVTG	Homo sapiens
1320	3863	Receptor GPR31 G Protein-Coupled	O00270	1160	SPTRSSVRRVFHTLRGKGQ	Homo sapiens
1321	3864	Receptor GPR31 G Protein-Coupled	AAA98457.1	143	DELFRDRYNHTFCFEKFPME	Homo sapiens
1322	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	144	LRAVRGVSSTERQEKAKIKR	Homo sapiens
1323	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	145	RSDVAKALHNLLRFLASDK	Homo sapiens
1324	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	146	NASLTLETPLTSKRNSTAK	Homo sapiens

1325	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	166	FQYLVPSQTVSLLTVG	Homo sapiens
1326	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	167	CLAERAAACSVVRPLARSH	Homo sapiens
1327	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	168	HLVVRICQVVRHAH	Homo sapiens
1328	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	169	EIGRALWLLCGCFQSK	Homo sapiens
1329	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	171	ATAESRRVAGRTYSAAR	Homo sapiens
1330	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	172	RLDDEQGRRCQCVLFPQPE	Homo sapiens
1331	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	173	RUHAMRLDSHAKALERAKKR	Homo sapiens
1332	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	174	DASFRRLRLQLTC	Homo sapiens
1333	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	175	NVSQDNGTGHNAFSEP	Homo sapiens
1334	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	176	RSRHMPWRTYRGAKVAS	Homo sapiens
1335	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	177	VLRSGAKALGKARRK	Homo sapiens
1336	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	178	LDDNFRKNFRSLRC	Homo sapiens
1337	3869	G Protein-Coupled Receptor HM74	BAA01721.1	179	QDHFLEIDKKNCVFRDD	Homo sapiens
1338	3869	G Protein-Coupled Receptor HM74	BAA01721.1	180	ARIWLSLRQRMDRHAKIKR	Homo sapiens
1339	3869	G Protein-Coupled Receptor HM74	BAA01721.1	181	CLQRKMITGEPDNNRSTVE	Homo sapiens
1340	3869	G Protein-Coupled Receptor HM74	BAA01721.1	182	DPNKTGAPALMANSGE	Homo sapiens
1341	3869	G Protein-Coupled Receptor HM74	BAA01721.1	183	SNNHKKGHCHQEPASLEKQ	Homo sapiens
1342	3869	G Protein-Coupled Receptor HM74	BAA01721.1	1453	RQRQMDRHAQIKRAITFIMV	Homo sapiens
1343	3869	G Protein-Coupled Receptor HM74	BAA01721.1	1454	SPSYLGPTSNHSHKKG	Homo sapiens
1344	3870	G Protein-Coupled	Q15743	1192	AVRRSHGTQKSRKDQI	Homo sapiens

1345	3870	Receptor OGR1	Q15743	1193	LMHEEVIEDENQHRVC	Homo sapiens
1346	3870	G Protein-Coupled Receptor OGR1	Q15743	1194	CFVSETHRDRLRLRG	Homo sapiens
1347	3870	G Protein-Coupled Receptor OGR1	Q15743	1195	CSRTGRAREAYPLGAPEASG	Homo sapiens
1348	3921	Prostaglandin Receptor	P43119	1188	CRMVRRQQKRHQGSLGPRPRT	Homo sapiens
1349	3921	Prostaglandin Receptor	P43119	1189	CFTQAVAPDSSEMMD	Homo sapiens
1350	3921	Prostaglandin Receptor	P43119	1190	ASGRRDPRAPSPVKGEGSC	Homo sapiens
1351	3921	Prostaglandin Receptor	P43119	1191	SAWGEGQVEPLPTQQ	Homo sapiens
1352	3923	Prostaglandin D2 Receptor	Q13258	458	KSPFYRCQNTSVEKGNNAV	Homo sapiens
1353	3923	Prostaglandin D2 Receptor	Q13258	459	RNLVAMHRRRLQRHPRSC	Homo sapiens
1354	3923	Prostaglandin D2 Receptor	Q13258	503	CAEPRADGREGASPPLEEL	Homo sapiens
1355	3923	Prostaglandin D2 Receptor	Q13258	504	KDVKEKNRTSEEAEDLRLR	Homo sapiens
1356	3924	Prostaglandin E Receptor EP1	P34995	962	AQAAGRLRRRSATTF	Homo sapiens
1357	3924	Prostaglandin E Receptor EP1	P34995	963	CVGVTRPLLHAARVSVARAR	Homo sapiens
1358	3924	Prostaglandin E Receptor EP1	P34995	964	CNTLSGLALHRARWRR	Homo sapiens
1359	3924	Prostaglandin E Receptor EP1	P34995	965	ASGPDSRRRWGAHGPR	Homo sapiens
1360	3924	Prostaglandin E Receptor EP1	P34995	966	SGSARRARAHDMVEMVGQ	Homo sapiens
1361	3925	Prostaglandin E Receptor EP2	AAD44177.1	967	IALALLARRWRGDVGC	Homo sapiens
1362	3925	Prostaglandin E Receptor EP2	AAD44177.1	968	CETRQWLPPGESPAISSV	Homo sapiens
1363	3925	Prostaglandin E Receptor EP2	AAD44177.1	969	GPSLGSGRGGPGARRRGE	Homo sapiens
1364	3925	Prostaglandin E Receptor EP2	AAD44177.1	971	NETSSRKEKWDQLQALR	Homo sapiens
1365	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	972	ERSAEARGNLTRPPGSGEDC	Homo sapiens
1366	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	973	SRSYRRRESKRKKSFLLC	Homo sapiens
1367	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	974	CRAKATASQSSAQWGR	Homo sapiens

1368	3926	EP3	Prostaglandin E2 Receptor	CAB52459.1	975	KFCQVANAVSSCSNDGQ	Homo sapiens
1369	3927	EP3	Prostaglandin E Receptor	P35408	382	RLSDFRRRSFRRIAGAE	Homo sapiens
1370	3927	EP4	Prostaglandin E Receptor	P35408	383	EREVSKNPDLQAIAS	Homo sapiens
1371	3927	EP4	Prostaglandin E Receptor	P35408	384	DSQRTSSAMSGHSRSFSIRE	Homo sapiens
1372	3927	EP4	Prostaglandin E Receptor	P35408	385	RTLRISETSDSSQGQDSE	Homo sapiens
1373	3928	Receptor	Prostaglandin F2-alpha	P43088	1046	ILMIKAYQRFQKSKAS	Homo sapiens
1374	3928	Receptor	Prostaglandin F2-alpha	P43088	1047	ASDKEWIRFDQSNVLC	Homo sapiens
1375	3928	Receptor	Prostaglandin F2-alpha	P43088	1048	TKPIFHSTKITSKHVK	Homo sapiens
1376	3928	Receptor	Prostaglandin F2-alpha	P43088	1049	CFYNTEDIKDWDERFY	Homo sapiens
1377	3928	Receptor	Prostaglandin F2-alpha	P43088	1050	RVKFKSQQHRQGRSHLE	Homo sapiens
1378	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	252	QGTNRSSKGRSLUGKVDGTS	Homo sapiens
1379	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	253	QRYWVIVNPMGHSRKKAN	Homo sapiens
1380	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	255	SHDFRDHAKNALLCRSVR	Homo sapiens
1381	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	256	VSLTSKKHSRKSSSYS	Homo sapiens
1382	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	257	ENDTNNLAKPTLPIKTFR	Homo sapiens
1383	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	258	CPEESASHLVKKNATMG	Homo sapiens
1384	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	260	QPDITTCDDVHNTCESSP	Homo sapiens
1385	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	261	MSKTRNHSTAYLTK	Homo sapiens
1386	4090	G Protein-Coupled Receptor GPR17	G Protein-Coupled Receptor GPR17	CAB08108.1	88	RDHKSGTPANVFLMH	Homo sapiens

1387	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	90	RSLRQGLRVEKRLTKAVR	Homo sapiens
1388	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	91	RSHGASCATQRILALANR	Homo sapiens
1389	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	92	FEKTNESLSAKSE	Homo sapiens
1390	4254	Rhodopsin	P08100	1051	RNCMLTICCGKNPLGD	Homo sapiens
1391	4254	Rhodopsin	P08100	1052	CGIDYYTLKPEVNNESFVI	Homo sapiens
1392	4254	Rhodopsin	P08100	1053	CWVPYASVAFVIFTHQGSN	Homo sapiens
1393	4254	Rhodopsin	P08100	1055	VLGGFTSLYTLHGY	Homo sapiens
1394	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1042	ATSSLLRRWPYGS DGC	Homo sapiens
1395	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1043	CTLDYSKGD RNF TSL	Homo sapiens
1396	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1044	MEQKLGKSGHLQVNIT	Homo sapiens
1397	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1045	MVCRGIWQCLSPQKRE	Homo sapiens
1398	4321	Secretin Receptor	P47872	950	CLQELSRQGTGDLGTEQ	Homo sapiens
1399	4321	Secretin Receptor	P47872	951	CPRFLRLMILSRNGSLFRN	Homo sapiens
1400	4321	Secretin Receptor	P47872	952	CGVNVNDSSNEKRHSY	Homo sapiens
1401	4321	Secretin Receptor	P47872	954	KDAVLFSSDDVTYCDAAH	Homo sapiens
1402	4321	Secretin Receptor	P47872	956	MIRKLRTQETRGNEVSH	Homo sapiens
1403	4480	Somatostatin Receptor Type 1	P30872	994	EEPGRNASQNGTLSEG	Homo sapiens
1404	4480	Somatostatin Receptor Type 1	P30872	996	CLSWMDNAAEEPVDY	Homo sapiens
1405	4480	Somatostatin Receptor Type 1	P30872	997	EDFQPENILESGGVFRNGTC	Homo sapiens
1406	4480	Somatostatin Receptor Type 1	P30872	2616	LSVDVAVNMFTSIYC	Homo sapiens
1407	4480	Somatostatin Receptor Type 1	P30872	2618	RAYSVEDFQPENLES	Homo sapiens
1408	4481	Somatostatin Receptor Type 2	P30874	998	RSNQWGRSSCTINWPGE	Homo sapiens
1409	4481	Somatostatin Receptor Type 2	P30874	999	KVKSSGIRVGSSKRKKE	Homo sapiens
1410	4481	Somatostatin Receptor Type	P30874	1000	CLVKVSGITDDGERSDS	Homo sapiens

1411	4481	2	Somatostatin Receptor Type	P30874	1001	KQDKSRUNETTETQRT	Homo sapiens
1412	4481	2	Somatostatin Receptor Type	P30874	2276	DMADEPLNGSHWLSIP	Homo sapiens
1413	4482	2	Somatostatin Receptor Type	P32745	1002	KVRSAGRRVWAFSCQR	Homo sapiens
1414	4482	3	Somatostatin Receptor Type	P32745	2622	REGGKGKEMNGRVSQI	Homo sapiens
1415	4482	3	Somatostatin Receptor Type	P32745	2624	TSEPENASSAWPPD	Homo sapiens
1416	4482	3	Somatostatin Receptor Type	P32745	2626	QPGTSGQERPPSRVA	Homo sapiens
1417	4483	4	Somatostatin Receptor Type	P31391	1007	IFADTRPARGGQAVAC	Homo sapiens
1418	4483	4	Somatostatin Receptor Type	P31391	1008	CLLEGAGGAEEEPDLY	Homo sapiens
1419	4483	4	Somatostatin Receptor Type	P31391	2627	KMRAVALRAGWQRR	Homo sapiens
1420	4483	4	Somatostatin Receptor Type	P31391	2631	CRAVLSVDGLNMFTSV	Homo sapiens
1421	4483	4	Somatostatin Receptor Type	P31391	2633	CLVGLVGNALVIFVIL	Homo sapiens
1422	4484	5	Somatostatin Receptor Type	NP_001044.1	2637	SIPLLVFADVQEGGTC	Homo sapiens
1423	4484	5	Somatostatin Receptor Type	NP_001044.1	2638	CLRKGSGAKDADATEP	Homo sapiens
1424	4484	5	Somatostatin Receptor Type	NP_001044.1	2639	RIRQQQEATPPAHRAAA	Homo sapiens
1425	4484	5	Somatostatin Receptor Type	NP_001044.1	2643	RVAKLASAAAWVLSLC	Homo sapiens
1426	4552	5	Tachykinin Receptor 1	AAA36641.1	1339	CMIEWPEHPNKIYEV	Homo sapiens
1427	4552	5	Tachykinin Receptor 1	AAA36641.1	1340	CPFISAGDYEGLEMKSTRYL	Homo sapiens
1428	4552	5	Tachykinin Receptor 1	AAA36641.1	1341	KVSRLETISTVWGAHEE	Homo sapiens
1429	4552	5	Tachykinin Receptor 1	AAA36641.1	1342	EPEDGPKATPSSDLTNSC	Homo sapiens
1430	4687	5	Thrombin Receptor	P25116	1202	EDEEKNESGLTEYRLV	Homo sapiens
1431	4687	5	Thrombin Receptor	P25116	2582	AVANIRSKKSRALFLSAAVFC	Homo sapiens
1432	4687	5	Thrombin Receptor	P25116	2583	SINKSSPLQKQLPAFISE	Homo sapiens

1433	4687	Thrombin Receptor	P25116	2621	DPRSFLLRNPNDKYEFW	Homo sapiens
1434	4734	Thyrotropin Releasing Hormone Receptor	P34981	1196	PSDPKENSKTWKNDS	Homo sapiens
1435	4734	Thyrotropin Releasing Hormone Receptor	P34981	1197	CFNSTVSSRKQVTKMLA	Homo sapiens
1436	4734	Thyrotropin Releasing Hormone Receptor	P34981	1198	RAAFRKLNCNCKQKPT	Homo sapiens
1437	4734	Thyrotropin Releasing Hormone Receptor	P34981	1199	KPANYSVAlNYSVIKE	Homo sapiens
1438	4734	Thyrotropin Releasing Hormone Receptor	P34981	1200	KESDHFSTELDDITVTD	Homo sapiens
1439	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1771	EQKNKPRNDDIFKII	Homo sapiens
1440	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1772	SYRPSDNVSSSTKKPAPC	Homo sapiens
1441	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1773	LNSSTEDGIKRIQDDC	Homo sapiens
1442	4946	Angiotensin II Type 2 Receptor	P50052	1321	CSQKPSDKHLDAPIL	Homo sapiens
1443	4946	Angiotensin II Type 2 Receptor	P50052	1322	DRYGSVVPFLSQRRN	Homo sapiens
1444	4946	Angiotensin II Type 2 Receptor	P50052	1323	RKHLKNTSYGKNRITRD	Homo sapiens
1445	4946	Angiotensin II Type 2 Receptor	P50052	1324	RVPIITWLQGKRESMSC	Homo sapiens
1446	5072	Pyrimidinergic Receptor P2Y4	P51582	1142	CHDTRPEEFDHYVHFSSA	Homo sapiens
1447	5072	Pyrimidinergic Receptor P2Y4	P51582	1145	YLLTGDKYRRQLRQLC	Homo sapiens
1448	5072	Pyrimidinergic Receptor P2Y4	P51582	2696	HPURALRWGRPRLAG	Homo sapiens
1449	5072	Pyrimidinergic Receptor P2Y4	P51582	2697	HIIRTIYILARLLEADC	Homo sapiens
1450	5117	Vasopressin V1A Receptor	AAA62271.1	262	REAEALGEGNGPPRDVRNEE	Homo sapiens
1451	5117	Vasopressin V1A Receptor	AAA62271.1	263	NVRGKTASRQSKGAEG	Homo sapiens
1452	5117	Vasopressin V1A Receptor	AAA62271.1	264	QNMKEKFNKEDTDSMSRRQ	Homo sapiens
1453	5117	Vasopressin V1A Receptor	AAA62271.1	265	RQTFYSNNRSPNTSGMWKD	Homo sapiens
1454	5118	Vasopressin V1B Receptor	AAA65687.1	266	NATIPWLGRDEELAKVE	Homo sapiens
1455	5118	Vasopressin V1B Receptor	AAA65687.1	267	TRGLPSRVSSINTISRAKIR	Homo sapiens

1456	5118	Vasopressin V1B Receptor	AAA65687.1	268	QPRMRRRLSDGSLSRH	Homo sapiens
1457	5118	Vasopressin V1B Receptor	AAA65687.1	269	ESPRDLEADGEGTAET	Homo sapiens
1458	5119	Vasopressin V2 Receptor	CAA77746.1	270	SNSSQERPLDTRDPLARAE	Homo sapiens
1459	5119	Vasopressin V2 Receptor	CAA77746.1	271	RHSGGAHWNRPLVAVAWAFS	Homo sapiens
1460	5119	Vasopressin V2 Receptor	CAA77746.1	272	CQVLIFREIHASLVPGPSE	Homo sapiens
1461	5119	Vasopressin V2 Receptor	CAA77746.1	273	RGRTPSLGPGQDESC	Homo sapiens
1462	5133	Peropsin	O14718	1147	KNEDGSVFSQTEHNIV	Homo sapiens
1463	5133	Peropsin	O14718	1148	IKYKELRTPTNAIIIN	Homo sapiens
1464	5133	Peropsin	O14718	1149	RKNDRSFVSVTMTVIA	Homo sapiens
1465	5133	Peropsin	O14718	1150	CTESLNRDWSQDIDVTK	Homo sapiens
1466	5133	Peropsin	O14718	1151	VANKKFRRAMLAMFKC	Homo sapiens
1467	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	987	CGPAGRTSSRSQSLRSTDAR	Homo sapiens
1468	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	988	EENRDKWEEAQLAGPN	Homo sapiens
1469	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	989	CRWVDRQEEGNGDSGG	Homo sapiens
1470	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	990	KRDKAPKSSFVGDGDI	Homo sapiens
1471	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	991	RKLQHAAEKDKEVLGP	Homo sapiens
1472	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	981	CLRPSPEEAVAQAEESEVGR	Homo sapiens
1473	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	982	GSSNDLFTTEMRYGEE	Homo sapiens
1474	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	983	MARDGISDKSKQRAGSERC	Homo sapiens
1475	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	984	EDAPRARPEGTPRRAAK	Homo sapiens
1476	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	985	RSRTIMPRTVPGSTMKMGSL	Homo sapiens
1477	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	986	KREKRWSVSSGGAAERSVC	Homo sapiens
1478	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	976	RRVFTNFPGLQKKGE	Homo sapiens
1479	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	977	CNLTREAKRPPKEEFG	Homo sapiens
1480	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	978	KLKHRAGQMSEPHSGLILKC	Homo sapiens

1481	5521	Inhibitor 3	Brain-Specific Angiogenesis Inhibitor 3	O60242	979	CTDDNLRGADMIDIVHPQER	Homo sapiens
1482	5521	Brain-Specific Angiogenesis Inhibitor 3	Brain-Specific Angiogenesis Inhibitor 3	O60242	980	SRSETGSTISMSSLERR	Homo sapiens
1483	6031	SIV/HIV Receptor	SIV/HIV Receptor BONZO	O00574	1101	NDSQEEHQDFLQFSK	Homo sapiens
1484	6031	SIV/HIV Receptor	SIV/HIV Receptor BONZO	O00574	1102	KATKAYNQAKRMTWG	Homo sapiens
1485	6031	SIV/HIV Receptor	SIV/HIV Receptor BONZO	O00574	1103	KTLHAGGFQKHSRK	Homo sapiens
1486	6031	SIV/HIV Receptor	SIV/HIV Receptor BONZO	O00574	1104	SLKFRKNFWKLVKDIGC	Homo sapiens
1487	6031	SIV/HIV Receptor	SIV/HIV Receptor BONZO	O00574	1105	KSSEDNSKTSASHNV	Homo sapiens
1488	6204	Lysophosphatidic Acid Receptor Edg4	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	66	ERHRSVMAVQLHSRLPRGR	Homo sapiens
1489	6204	Lysophosphatidic Acid Receptor Edg4	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	67	RRRVQRMAEHVSCHPRYRE	Homo sapiens
1490	6204	Lysophosphatidic Acid Receptor Edg4	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	68	NAAVYSCRDAEMRRITERR	Homo sapiens
1491	6204	Lysophosphatidic Acid Receptor Edg4	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	69	RQSTRESVHYTSSAQGGAST	Homo sapiens
1492	6213	C-C Chemokine Receptor 5	C-C Chemokine Receptor 5	AAC50598.1	38	YSQYQFWKNFQTLK	Homo sapiens
1493	6213	C-C Chemokine Receptor 5	C-C Chemokine Receptor 5	AAC50598.1	39	QQEAPERASSVYTRSTGEQE	Homo sapiens
1494	6213	C-C Chemokine Receptor 5	C-C Chemokine Receptor 5	AAC50598.1	40	RSQKEGLHYTCSHFYPYSQ	Homo sapiens
1495	6213	C-C Chemokine Receptor 5	C-C Chemokine Receptor 5	AAC50598.1	309	MDYQVSSPIYDINWYTSPEC	Homo sapiens
1496	6363	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1092	EDEYDVLIERGELESDAEQC	Homo sapiens
1497	6363	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1093	KGNFFSARRRVPCGIITSVL	Homo sapiens
1498	6363	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1094	MIRKTLRFREQRYSLFKLVFA	Homo sapiens
1499	6363	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1096	RSNTPLQPRGQSAQGTSRE	Homo sapiens
1500	6446	Pael Receptor (GPR37)	Pael Receptor (GPR37)	AAC51281.1	127	GPNGSARDVLRARAPREEQG	Homo sapiens
1501	6446	Pael Receptor (GPR37)	Pael Receptor (GPR37)	AAC51281.1	129	DPGGPRRGNSTNRRVRLKNP	Homo sapiens
1502	6446	Pael Receptor (GPR37)	Pael Receptor (GPR37)	AAC51281.1	130	LRQLSKEDLGFSGRAPAERC	Homo sapiens
1503	6446	Pael Receptor (GPR37)	Pael Receptor (GPR37)	AAC51281.1	131	PRGAVISGRSQEQSVKTVPG	Homo sapiens
1504	6446	Pael Receptor (GPR37)	Pael Receptor (GPR37)	AAC51281.1	1781	CIGKSSVTSDDDNDNEYTTE	Homo sapiens
1505	6446	Pael Receptor (GPR37)	Pael Receptor (GPR37)	NP_005293.1	1806	CIGKSSVTSDDDNDNEYTTE	Homo sapiens
1506	6536	Putative Neurotransmitter Receptor (PNR)	Putative Neurotransmitter Receptor (PNR)	O14804	319	TDVWETRLSQWLEEMPC	Homo sapiens

1507	6536	Putative Neurotransmitter Receptor (PNR)	O14804	320	KSLAGAAKHERKAAKT	Homo sapiens
1508	6536	Putative Neurotransmitter Receptor (PNR)	O14804	321	RKALKLTLSQKVFSPQTR	Homo sapiens
1509	6536	Putative Neurotransmitter Receptor (PNR)	O14804	485	HPAAFCYQVNGSCPR	Homo sapiens
1510	6777	G Protein-Coupled Receptor TM7SF1	O60478	788	KAKSKYSPPELLKYRLP	Homo sapiens
1511	6777	G Protein-Coupled Receptor TM7SF1	O60478	790	KTGNWERKVIVSVRVA	Homo sapiens
1512	6777	G Protein-Coupled Receptor TM7SF1	O60478	791	KSVHSFDYDWNVNSDQAD	Homo sapiens
1513	6777	G Protein-Coupled Receptor TM7SF1	O60478	792	RVRNPTKDLTNPQMVP	Homo sapiens
1514	6777	G Protein-Coupled Receptor TM7SF1	O60478	793	RYDSDDDLAWNIA PQGLQ	Homo sapiens
1515	6853	Purinergic Receptor P2Y11	O43190	865	PTLSFSLKRPQQGAGNC	Homo sapiens
1516	6853	Purinergic Receptor P2Y11	O43190	866	GALGRAVLRSPGMTVAE	Homo sapiens
1517	6853	Purinergic Receptor P2Y11	O43190	867	MRVLNVDAARRWSTRC	Homo sapiens
1518	6853	Purinergic Receptor P2Y11	O43190	868	CPGYRDSWNPEDAKSTGQA	Homo sapiens
1519	6853	Purinergic Receptor P2Y11	O43190	2299	CPANFLAAADDKLSGFQGD	Homo sapiens
1520	6853	Purinergic Receptor P2Y11	O43190	2300	ASNGLALYRFSIRKQR	Homo sapiens
1521	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	137	CNRSSTRHHEQPETSN	Homo sapiens
1522	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	139	PNQIRIRIMAAAKPKHD	Homo sapiens
1523	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	140	EKRLRVHAHSTDSAR	Homo sapiens
1524	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	141	VQRPLLFASRRQSSARTEK	Homo sapiens
1525	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	142	QSEAE PQSKSQSLLESLEP	Homo sapiens
1526	7221	Galanin Receptor GalR2	AAC39634.1	197	NLTVCHPAWSAPRRRAMD	Homo sapiens
1527	7221	Galanin Receptor GalR2	AAC39634.1	198	RAVDPAAGSGARRAKRK	Homo sapiens
1528	7221	Galanin Receptor GalR2	AAC39634.1	199	GRAPGRASGRVCAAAARG	Homo sapiens
1529	7221	Galanin Receptor GalR2	AAC39634.1	200	ERESDILLHMSAAGALRPC	Homo sapiens
1530	7246	Orexin Receptor 1	AAC39601.1	235	DQLGDLEQGLSGEPQP	Homo sapiens
1531	7246	Orexin Receptor 1	AAC39601.1	236	EPSATPGAQMGVPPGSR	Homo sapiens

1532	7246	Orexin Receptor 1	AAC39601.1	237	KRPDQLGLDLEQLSGEPQ	Homo sapiens
1533	7246	Orexin Receptor 1	AAC39601.1	239	KAPSPRSSASHKSLQSRC	Homo sapiens
1534	7247	Orexin Receptor 2	AAC39602.1	240	SELNETQEPFLNPTDYDDEE	Homo sapiens
1535	7247	Orexin Receptor 2	AAC39602.1	241	KWKPLQPVSQPRGPGQ	Homo sapiens
1536	7247	Orexin Receptor 2	AAC39602.1	242	TKSRMSAVAAEIKQIRA	Homo sapiens
1537	7247	Orexin Receptor 2	AAC39602.1	243	RQEDRLTRGRTSTESRKS	Homo sapiens
1538	8436	Platelet-Activating Factor Receptor	P25105	1097	AVTRPIKTAQANTRKR	Homo sapiens
1539	8436	Platelet-Activating Factor Receptor	P25105	1098	DSTNTVPDSAGSGNVTRC	Homo sapiens
1540	8436	Platelet-Activating Factor Receptor	P25105	1099	QQRNAEVKRRALWMVC	Homo sapiens
1541	8436	Platelet-Activating Factor Receptor	P25105	1100	KKFRKHLTEKFYSMRSSRKC	Homo sapiens
1542	8509	G Protein-Coupled Receptor Ls8509	Q14439	398	DIRYSVLYPLERKISDAKSR	Homo sapiens
1543	8509	G Protein-Coupled Receptor Ls8509	Q14439	400	DEESEAKYIGSADFQAKE	Homo sapiens
1544	8509	G Protein-Coupled Receptor Ls8509	Q14439	401	ETRNSKKRLLPPLGNTPPEE	Homo sapiens
1545	8509	G Protein-Coupled Receptor Ls8509	Q14439	402	ELIQTKVPKVGRVERKMSR	Homo sapiens
1546	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1078	KKQIRKAGNFTSILIAN	Homo sapiens
1547	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1079	FRNLSLPTDLYTHQVAC	Homo sapiens
1548	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1080	CVENWPSKKDRLLFT	Homo sapiens
1549	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1081	CLURRRNAKVDDKKKENEGR	Homo sapiens
1550	9421	Neuropeptide Y Receptor Type 1	P25929	1064	DEPFQNVTLDAYKDKYVC	Homo sapiens
1551	9421	Neuropeptide Y Receptor Type 1	P25929	1065	CYFKIYIRLKRNRNNMMDK	Homo sapiens
1552	9421	Neuropeptide Y Receptor Type 1	P25929	1066	CDFRSRDDDYETIAMS	Homo sapiens
1553	9421	Neuropeptide Y Receptor Type 1	P25929	1498	ENDDCHLPLAMIFTLALA	Homo sapiens
1554	9421	Neuropeptide Y Receptor Type 1	P25929	2291	SNFSEKNAGLLAFENDDC	Homo sapiens

Type 1						
1555	9834	Corticotropin releasing factor Receptor 1	NP_004373.1	1778	CESLSLASNISDNGYRE	Homo sapiens
1556	9834	Corticotropin releasing factor Receptor 1	NP_004373.1	1779	CQEILNEEKSKVHYHVA	Homo sapiens
1557	10457	Frizzled-2	NP_001457.1	1774	NHSEDGAPALLTIAPP	Homo sapiens
1558	10457	Frizzled-2	NP_001457.1	1775	GGAPPRYATLEHPHC	Homo sapiens
1559	10457	Frizzled-2	NP_001457.1	1776	CEPARPDGSMFFSQEE	Homo sapiens
1560	11968	Purative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1082	AAREAGAAVRRPLGPE	Homo sapiens
1561	11968	Purative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1083	LYR9RRPREKIGRRRA	Homo sapiens
1562	11968	Purative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1085	PRELAAGQSFHGCLYR	Homo sapiens
1563	11968	Purative Leukocyte Platelet-Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1086	CKTVRLSDVRVRPVNTYAR	Homo sapiens
1564	14198	Interleukin-8 Receptor B	P25025	802	EDFWKGEDLSNYSYS	Homo sapiens
1565	14198	Interleukin-8 Receptor B	P25025	803	PPFLDDAAPCEPESLE	Homo sapiens
1566	14198	Interleukin-8 Receptor B	P25025	804	RRTVSSNVSPACYE	Homo sapiens
1567	14198	Interleukin-8 Receptor B	P25025	805	SKDSLPIKDSRPSFVGS	Homo sapiens
1568	14641	Calcitonin Receptor	P30988	766	PKPFLYVVVGRKKMMDAQYKC	Homo sapiens
1569	14641	Calcitonin Receptor	P30988	769	VEVVPNGELVRRDPVSC	Homo sapiens
1570	14641	Calcitonin Receptor	P30988	771	KIQWNQIRWGRRPSNRS	Homo sapiens
1571	14641	Calcitonin Receptor	P30988	772	CHQEPRNEPANNGEESAE	Homo sapiens
1572	16041	C-C Chemokine Receptor 6	P51684	355	TKSFRLSRTLPRSKIIC	Homo sapiens
1573	16041	C-C Chemokine Receptor 6	P51684	356	STFVFNQKYNTQGSDVCE	Homo sapiens
1574	16041	C-C Chemokine Receptor 6	P51684	357	TAANLGMNIRSCQSE	Homo sapiens
1575	16041	C-C Chemokine Receptor 6	P51684	358	RYSENISRQTSETADNDNAS	Homo sapiens
1576	16599	Smoothed	NP_005622.1	2595	CPLAPPPPELHPPAPAP	Homo sapiens
1577	16599	Smoothed	NP_005622.1	2666	CAIVERERGWPDFLR	Homo sapiens
1578	16599	Smoothed	NP_005622.1	2667	CTNEVQNIKFNSGGQ	Homo sapiens
1579	16599	Smoothed	NP_005622.1	2668	CEVPLVRTDNPKSWEY	Homo sapiens
1580	16599	Smoothed	NP_005622.1	2669	CRADGTMLRGEPTSNE	Homo sapiens

1581	16599	Smoothed	NP_005622.1	2670	EAEISPELQKRLGRKK	Homo sapiens
1582	16599	Smoothed	NP_005622.1	2671	ANVTIGLPTKQIPDC	Homo sapiens
1583	17250	G Protein-Coupled Receptor GPR45	O43898	1227	SNASDSGSTQLPAPLR	Homo sapiens
1584	17250	G Protein-Coupled Receptor GPR45	O43898	1228	CVLGYTELPADRAYV	Homo sapiens
1585	17250	G Protein-Coupled Receptor GPR45	O43898	1249	LNTVRKNAVVRVHNQSD	Homo sapiens
1586	17250	G Protein-Coupled Receptor GPR45	O43898	1272	KVPERIRRRIGPSTVYC	Homo sapiens
1587	17250	G Protein-Coupled Receptor GPR45	O43898	1273	DSLDIRQLTRAGLRRL	Homo sapiens
1588	17345	G Protein-Coupled Receptor D6	LR13	363	EDADAENSSFYYDYLDE	Homo sapiens
1589	17345	G Protein-Coupled Receptor D6	LR13	364	DKYLEIVHAQPYHRLRTR	Homo sapiens
1590	17345	G Protein-Coupled Receptor D6	LR13	365	CVLVRLRPAGQGRLK	Homo sapiens
1591	17345	G Protein-Coupled Receptor D6	LR13	366	DLGERQSENYPNKEDVGNK	Homo sapiens
1592	17535	Gaba(b) Receptor 1	O95375	188	EKLTKRLKRHPETGGFQEA	Homo sapiens
1593	17535	Gaba(b) Receptor 1	O95375	189	KKEKKEWRTLEPWK	Homo sapiens
1594	17535	Gaba(b) Receptor 1	O95375	190	DPLHRTIETFAKEPKEDID	Homo sapiens
1595	17535	Gaba(b) Receptor 1	O95375	191	YEIEVCRGEREVVGPVKRK	Homo sapiens
1596	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1205	SLWETVQKWREYRRQC	Homo sapiens
1597	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1206	LQKONSSLPWRDLSEC	Homo sapiens
1598	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1208	CIVVSKLKANLMCKTD	Homo sapiens
1599	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1209	RWRLEHLHIQRDSSMKPLKC	Homo sapiens
1600	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1520	CQVDETEEPDVHLPGP	Homo sapiens
1601	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1521	REGLEAAGAAGASAAAYSS	Homo sapiens
1602	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1522	KLPSARAKIRITSSPI	Homo sapiens
1603	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1523	ESKSSIKRVLAITTVLS	Homo sapiens

1604	18471	Receptor LOC51210	NP_057456.1	1524	QGTEILYPDAHLSAED	Homo sapiens
1605	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1525	PKTPLKERISLPSRRS	Homo sapiens
1606	19072	G Protein-Coupled Receptor LOC51210	ENSP00000164265	2030	SVVQLRRQRDPFEWNEGLC	Homo sapiens
1607	19072	Receptor Ls19072	ENSP00000164265	2032	PAVGWHDTSERFYTHGC	Homo sapiens
1608	19072	G Protein-Coupled Receptor Ls19072	ENSP00000164265	2047	AVQVGRQADRRRAFTVPT	Homo sapiens
1609	19501	G Protein-Coupled Receptor Ls19072	Q9UIZ3	1513	EHEPAGEEALRQKRAVATK	Homo sapiens
1610	19501	G Protein-Coupled Receptor KIAA0758	Q9UIZ3	1514	ALRQKRAVATKSPAE	Homo sapiens
1611	19501	G Protein-Coupled Receptor KIAA0758	Q9UIZ3	1515	CEKEVLSSNVSWRYEEQQLE	Homo sapiens
1612	19501	G Protein-Coupled Receptor KIAA0758	Q9UIZ3	1518	RLANNTGGWDSSGCVVEEGD	Homo sapiens
1613	19501	G Protein-Coupled Receptor KIAA0758	Q9UIZ3	1519	CKGEKSSILFQISKISIG	Homo sapiens
1614	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2164	CTAFQRRREGGVPGTRPGSPG	Homo sapiens
1615	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2166	APGTRASRRCDRAGRWE	Homo sapiens
1616	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2167	CPAERVANNRGNDFRWPR	Homo sapiens
1617	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2171	QNPPPEPEPPADQQLRFRC	Homo sapiens
1618	21632	G Protein-Coupled Receptor Ls21632	BAA96055.1	2175	VPLGGGAPGTRASRRRC	Homo sapiens
1619	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	425	PAARVHRPSRCRYRD	Homo sapiens
1620	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	426	TLARPDATGSSQRRRKTVRL	Homo sapiens
1621	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	427	RSKLVAAASVPARDVRVG	Homo sapiens
1622	22315	G Protein-Coupled Receptor GPR92/GPR93	LR29	428	AGSERSAVITDAIRPD	Homo sapiens

1623	22925	Latrophilin-3	O94867	1138	CSGKSTESSIGSGKTSGSR	Homo sapiens
1624	22925	Latrophilin-3	O94867	1140	ENHQPHHYTRRRIPQID	Homo sapiens
1625	22925	Latrophilin-3	O94867	1141	ESVTSTQTEPPPAKC	Homo sapiens
1626	22925	Latrophilin-3	O94867	1497	SSASLNREGLLNNARD	Homo sapiens
1627	25359	G Protein-Coupled Receptor GPR34	O95853	1255	DRYKINRSIQQRKAIT	Homo sapiens
1628	25359	G Protein-Coupled Receptor GPR34	O95853	1257	CFHYRDKHNAKGEAIFN	Homo sapiens
1629	25359	G Protein-Coupled Receptor GPR34	O95853	1258	RISKRRSKFPNSGKYA	Homo sapiens
1630	25359	G Protein-Coupled Receptor GPR34	O95853	1259	CQLLFRRFQGEPSRSESTSE	Homo sapiens
1631	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2721	RLQEILTTEKINKTR	Homo sapiens
1632	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2722	KGKSRAAENASLGPTN	Homo sapiens
1633	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2723	LLFGTIMDHKIRDALR	Homo sapiens
1634	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2724	RPSIGSSKSQDVVIMIRI	Homo sapiens
1635	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1579	KLPNNELHGQESHNSGN	Homo sapiens
1636	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1580	SGNRSDGPGKNTLHNEFD	Homo sapiens
1637	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1581	RQFISQSSRRKRKHNSIR	Homo sapiens
1638	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1582	SHLDRLDESAGKILYYC	Homo sapiens
1639	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1584	CRSFSRRFLFKSNIRTRSE	Homo sapiens
1640	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1585	ESIRSLQSVRRSEVRIVYD	Homo sapiens
1641	31568	G Protein-Coupled Receptor RE2	O75963	331	CRKELSNLTEEGGEGGV	Homo sapiens
1642	31568	G Protein-Coupled Receptor RE2	O75963	332	EEDAQRTGRKNSSTSTSSS	Homo sapiens
1643	31568	G Protein-Coupled Receptor RE2	O75963	333	CFGDRYVREPFVQRQRTSR	Homo sapiens
1644	31568	G Protein-Coupled Receptor RE2	O75963	334	HSSSTGDTGFSCSQDSGNL	Homo sapiens

1645	36534	Receptor RE2	1232	CQKLQKIDLRHNEIVEIKVD	Homo sapiens
1646	36534	G Protein-Coupled Receptor GPR49	1233	NKGDNSSMDDLHKDA	Homo sapiens
1647	36534	G Protein-Coupled Receptor GPR49	1234	QDERDLEDLDFEED	Homo sapiens
1648	36534	G Protein-Coupled Receptor GPR49	1235	ERGFVSVKYSAKFETKA	Homo sapiens
1649	36534	G Protein-Coupled Receptor GPR49	1236	RSKHPSLMSINSDDVEKQSC	Homo sapiens
1650	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	2597	DAQKESTGVTLRQRR	Homo sapiens
1651	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	2600	CKKINQLISETEAVVFN	Homo sapiens
1652	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	2610	ADDQTILEQMMDDQDDG	Homo sapiens
1653	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	2672	KYNGSISLRPRRLASQ	Homo sapiens
1654	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	2673	KRYFAKFEKFFQTC	Homo sapiens
1655	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	2674	DGDRQKAMKRLRVPL	Homo sapiens
1656	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	2103	RVRSGRVSYSTDFQDC	Homo sapiens
1657	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	2105	CNNSVPGKEHPFDITVMIRE	Homo sapiens
1658	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	2106	APSKPGLPKPGQATVPRKVD	Homo sapiens
1659	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	2135	AASKPKSTPAVIQGPSGKD	Homo sapiens
1660	42697	G Protein-Coupled Receptor GPR64	1261	KRSELNKTILQTLSETYFIMC	Homo sapiens
1661	42697	G Protein-Coupled Receptor GPR64	1262	GNASTERNGVSFSVQNGDVC	Homo sapiens
1662	42697	G Protein-Coupled Receptor GPR64	1263	CRICKKKQLGAQRKTSIQD	Homo sapiens
1663	42697	G Protein-Coupled Receptor GPR64	1264	DFTGKQHMFNEKEDSC	Homo sapiens

1664	45937	KIAA1624 Protein	AAK57695	2072	PNVNPASAGNQIQKTQD	Homo sapiens
1665	45937	KIAA1624 Protein	AAK57695	2073	RVKSPPEAGTQLPKIIFS	Homo sapiens
1666	45937	KIAA1624 Protein	AAK57695	2074	KDGYMVVNVSSLSNEPED	Homo sapiens
1667	45937	KIAA1624 Protein	AAK57695	2076	RSTVDSKAMGEKFSVHNING	Homo sapiens
1668	50847	Neurotensin Receptor type 2	O95665	1265	CQPLRARSLTPRRTR	Homo sapiens
1669	50847	Neurotensin Receptor type 2	O95665	1266	GQKHELETADGEPEASRVC	Homo sapiens
1670	50847	Neurotensin Receptor type 2	O95665	1267	KKTFIQGGQVSLVRHKD	Homo sapiens
1671	50847	Neurotensin Receptor type 2	O95665	1269	CGEHHPMKRLPPKPQSP	Homo sapiens
1672	50847	Neurotensin Receptor type 2	O95665	2294	STSTPGSSTPSRLELSEE	Homo sapiens
1673	50847	Neurotensin Receptor type 2	O95665	2301	METSSPRPPRPSSNPG	Homo sapiens
1674	50847	Neurotensin Receptor type 2	O95665	2302	CSQVPSTSTPGSSTPSR	Homo sapiens
1675	53440	G Protein-Coupled Receptor LS53440	LR76	1850	DPNGNESSATYFILIG	Homo sapiens
1676	53440	G Protein-Coupled Receptor LS53440	LR76	1851	RHATVLTLPRTKIGV	Homo sapiens
1677	53440	G Protein-Coupled Receptor LS53440	LR76	1852	ILKTVLGLTREAAQAKA	Homo sapiens
1678	53440	G Protein-Coupled Receptor LS53440	LR76	1853	HRFSKRDRDSPLPVILAN	Homo sapiens
1679	53440	G Protein-Coupled Receptor LS53440	LR76	1854	KEIRQRILRLFHVA THASE	Homo sapiens
1680	54053	Gaba(b) Receptor 2	O75899	1416	GEDIEISDTESFSNDPC	Homo sapiens
1681	54053	Gaba(b) Receptor 2	O75899	1417	SSKQIKTISGKTPQQYE	Homo sapiens
1682	54053	Gaba(b) Receptor 2	O75899	1419	AATGNRRRFQFTGNQKKE	Homo sapiens
1683	54053	Gaba(b) Receptor 2	O75899	1420	CKDPIEDINSPEHIQRR	Homo sapiens
1684	55728	ETL protein	NP_071442.1	2113	CVLSRKIQEEYVRLFKNVP	Homo sapiens
1685	55728	ETL protein	NP_071442.1	2114	CIAANINKTLTKIRSIKEP	Homo sapiens
1686	55728	ETL protein	NP_071442.1	2115	KLSVNHRRTHLTIKLMHIVE	Homo sapiens
1687	55728	ETL protein	NP_071442.1	2116	EKITFLSHRKVTDYRSLC	Homo sapiens
1688	55728	ETL protein	NP_071442.1	2117	SSSLLGYKNNTISAKD	Homo sapiens
1689	56923	Muscarinic acetylcholine	P20309	1421	CSSYELQQQSMKRSNRRK	Homo sapiens

1690	56923	Receptor M3	P20309	1422	KPSSEQMDQDHSSSDSWNNN	Homo sapiens
1691	56923	Muscarinic acetylcholine Receptor M3	P20309	1423	DLERKADKLQAQKSVD	Homo sapiens
1692	56923	Muscarinic acetylcholine Receptor M3	P20309	1424	KEATLAKRFALKTRSQ	Homo sapiens
1693	57180	Receptor M3	NP_062813.1	2097	PPTCRPRRMSVCYRPPGNE	Homo sapiens
1694	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2098	CLAVTRPFLAPRURSPALAR	Homo sapiens
1695	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2099	RGARWGSGRHGARVGR	Homo sapiens
1696	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2100	TAGDLLPRAGPRFLTR	Homo sapiens
1697	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2101	EGSGEARGGGRSREGTME	Homo sapiens
1698	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2102	RTTPQLKVVGGGRGNCD	Homo sapiens
1699	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1909	RSAPTALSRRLRARITHLPGC	Homo sapiens
1700	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1910	VRGSHGEPDASLMPRSC	Homo sapiens
1701	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1911	RKEDSVLMEATSGGPTSFR	Homo sapiens
1702	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1912	DQNKADIGGMLPGLTVRSV	Homo sapiens
1703	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1913	PAGWPDQSLAESDESDPSG	Homo sapiens
1704	74514	5-HT5A Receptor	NP_076917.1	2118	ETNHSGLGKDDLPPSP	Homo sapiens
1705	74514	5-HT5A Receptor	NP_076917.1	2119	SLVHELSGRRWQLGRRLC	Homo sapiens
1706	74514	5-HT5A Receptor	NP_076917.1	2120	LLFGWGETYSEGSEEC	Homo sapiens
1707	74514	5-HT5A Receptor	NP_076917.1	2121	FRVGSRKINSVSPISE	Homo sapiens
1708	74514	5-HT5A Receptor	NP_076917.1	2122	RHATVTFQPEGDTWREKQ	Homo sapiens

1709	81765	Thromboxane A2 Receptor	P21731	1277	GITRPFSPAVASQRR	Homo sapiens
1710	81765	Thromboxane A2 Receptor	P21731	1278	CHVYHGQEAAGQRPRDSEVE	Homo sapiens
1711	81765	Thromboxane A2 Receptor	P21731	1279	RNPPAMSPAGQLSRITE	Homo sapiens
1712	81765	Thromboxane A2 Receptor	P21731	1280	RRLQPRLSTRPRRVSLC	Homo sapiens
1713	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	155	RYLSVVSPSLTRVPTLRC	Homo sapiens
1714	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	156	SSILDITFHKVLSGGCDYSE	Homo sapiens
1715	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	157	VEILRTLFRSRKRHRITVK	Homo sapiens
1716	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	158	QTLFRTQIIRSCAKQQL	Homo sapiens
1717	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	159	RLQAPSPASIPHSPGAFAYE	Homo sapiens
1718	130108	Receptor 1 (CCXCR1)	NP_006785.1	1589	RIEYYSINSSPSQEE	Homo sapiens
1719	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1590	IMIAQTLRKNAQVRKC	Homo sapiens
1720	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1591	RNQNYNKLGHVQTRGYTKS	Homo sapiens
1721	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1592	SRLQLVSAINLSTAKD	Homo sapiens
1722	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1593	CKQKTRLRAMGKGNIENVNR	Homo sapiens
1723	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1594	NSAYMLSPKPKKFFVDQAC	Homo sapiens
1724	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1218	CKVQDSNRRKMLPTQF	Homo sapiens
1725	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1219	HAVSLTKLVRGRKPLS	Homo sapiens
1726	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1220	NVNVFSELSAPRRNED	Homo sapiens
1727	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1221	TKQRNPMIDYPVEDAFC	Homo sapiens
1728	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1222	CKPQLVKKSYGVENRA	Homo sapiens
1729	152198	Tachykinin Receptor 2	AAB05897.1	1286	RRVAVPGHQAHGANLRH	Homo sapiens
1730	152198	Tachykinin Receptor 2	AAB05897.1	1287	KEDKLEIPTTSLSTRVNRC	Homo sapiens
1731	152198	Tachykinin Receptor 2	AAB05897.1	1288	KETLFMAGDTAPSEATSGEA	Homo sapiens

1732	152198	Tachykinin Receptor 2	AAB05897.1	1290	CVVAWPEDSGGKTLIL	Homo sapiens
1733	152201	Thyrotropin Receptor	P16473	1445	RQRKSVNALNSPLHQE	Homo sapiens
1734	152201	Thyrotropin Receptor	P16473	1446	KFQDTHNNAHYYVFEEQED	Homo sapiens
1735	152201	Thyrotropin Receptor	P16473	1449	CHVKYIVRNPNQYNPGDK	Homo sapiens
1736	152201	Thyrotropin Receptor	P16473	1450	CKRQAQAYRGQRVPPKNSTD	Homo sapiens
1737	152245	C-C Chemokine Receptor 2	NP_000639.1	1896	SRSRFRNTNESGEEVT	Homo sapiens
1738	152245	C-C Chemokine Receptor 2	NP_000639.1	1898	CQKEDSVVCGPYFPRGWNN	Homo sapiens
1739	152245	C-C Chemokine Receptor 2	NP_000639.1	1899	SGEEVTFFDYDYGAPCHKF	Homo sapiens
1740	152299	Interleukin-8 Receptor A	P25024	806	DFDDLNFTGMPPADEDYSPC	Homo sapiens
1741	152299	Interleukin-8 Receptor A	P25024	807	CWGLSMNLSLPFLRQAYH	Homo sapiens
1742	152299	Interleukin-8 Receptor A	P25024	808	RHRVTSYTSSVNVSSN	Homo sapiens
1743	152299	Interleukin-8 Receptor A	P25024	1490	CMLETETLNKYVVIAYALV	Homo sapiens
1744	158822	Mas Proto-Oncogene	NP_002368.1	1527	EEPTINISTGRNASVGNHRQ	Homo sapiens
1745	158822	Mas Proto-Oncogene	NP_002368.1	1528	RRNPFVYTHLSIAD	Homo sapiens
1746	158822	Mas Proto-Oncogene	NP_002368.1	1529	YVMCIDREESHRSRNDCCRAV	Homo sapiens
1747	158822	Mas Proto-Oncogene	NP_002368.1	1530	SSTILVVKIRKNTWASHSSK	Homo sapiens
1748	158822	Mas Proto-Oncogene	NP_002368.1	1531	TRAFKDEMQRPRQKDNK	Homo sapiens
1749	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1578	ERYLGVAFPVQYKLSRRPL	Homo sapiens
1750	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1586	QYLNITEQVRSGNEITC	Homo sapiens
1751	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1588	EGTNEDRGVGGQEGEMPSSD	Homo sapiens
1752	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1616	RGLQLVLRNQGSLLGRRGKD	Homo sapiens
1753	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1292	KQCLEEAQLENETIGCS	Homo sapiens
1754	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1296	KDLALFDSGESDQCSE	Homo sapiens
1755	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1297	LQKLRPDIRKSDSSP	Homo sapiens
1756	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1298	NPKYRHPSGGSNGATC	Homo sapiens
1757	160040	Vasoactive Intestinal Polypeptide Receptor 1	P41587	1299	KVFSNFYSKAGNISKNC	Homo sapiens
1758	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1301	CGYSDPEDESKITFYI	Homo sapiens
1759	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1305	KRKWRSRCPTPSASRD	Homo sapiens

1760	160040	Polypeptide Receptor 2	Vasoactive Intestinal	P41587	1306	CGSFSFRNGSEGAHQFHR	Homo sapiens
1761	160055	Polypeptide Receptor 2	Motilin Receptor (GPR38)	AAC26081.1	132	REPPWPALPPCDERRCS	Homo sapiens
1762	160055	Motilin Receptor (GPR38)	Motilin Receptor (GPR38)	AAC26081.1	134	SPSPGPETAEEAAALFSREC	Homo sapiens
1763	160055	Motilin Receptor (GPR38)	Motilin Receptor (GPR38)	AAC26081.1	135	SSRRPLRGPAASGRERGRHQ	Homo sapiens
1764	160055	Motilin Receptor (GPR38)	Motilin Receptor (GPR38)	AAC26081.1	136	RKSRRPGFHRSDTAG	Homo sapiens
1765	160059	G Protein-coupled Receptor	G Protein-coupled Receptor	NP_005294.1	1595	NPLVTGYLGRGPGLKTVC	Homo sapiens
1766	160059	G Protein-coupled Receptor	G Protein-coupled Receptor	NP_005294.1	1596	GRYLGAAPFLGYQAFRRPC	Homo sapiens
1767	160059	G Protein-coupled Receptor	G Protein-coupled Receptor	NP_005294.1	1597	CLEAWDPASAGPARFS	Homo sapiens
1768	160059	G Protein-coupled Receptor	G Protein-coupled Receptor	NP_005294.1	1598	CLRALARSGLTHRRKLR	Homo sapiens
1769	160059	G Protein-coupled Receptor	G Protein-coupled Receptor	NP_005294.1	1599	NASNVASFLYPNLGGSWRK	Homo sapiens
1770	160059	G Protein-coupled Receptor	G Protein-coupled Receptor	NP_005294.1	1617	TVSLPLKAVEALASGA	Homo sapiens
1771	160059	G Protein-coupled Receptor	G Protein-coupled Receptor	NP_005294.1	1618	DHSNTSLGINTPVNGSPVC	Homo sapiens
1772	160189	G Protein-Coupled Receptor GPR54	G Protein-Coupled Receptor GPR54	BAB55446	1926	CSEAFPSRALERAFALY	Homo sapiens
1773	160189	G Protein-Coupled Receptor GPR54	G Protein-Coupled Receptor GPR54	BAB55446	1927	ERAGAVRAKVSRLLVAAW	Homo sapiens
1774	160189	G Protein-Coupled Receptor GPR54	G Protein-Coupled Receptor GPR54	BAB55446	1928	RRPGSPDPAAPHAELHRLGS	Homo sapiens
1775	160189	G Protein-Coupled Receptor GPR54	G Protein-Coupled Receptor GPR54	BAB55446	1929	GAPANASGCPGCCGANASD	Homo sapiens
1776	160202	Adrenomedullin Receptor (ADMIR)	Adrenomedullin Receptor (ADMIR)	O15218	390	DLFNHTLSECHVELSQST	Homo sapiens
1777	160202	Adrenomedullin Receptor (ADMIR)	Adrenomedullin Receptor (ADMIR)	O15218	391	NVLTAQLRLQPGQPKSRRHC	Homo sapiens
1778	160202	Adrenomedullin Receptor (ADMIR)	Adrenomedullin Receptor (ADMIR)	O15218	392	KDQTKAGTCASSSSCSTQ	Homo sapiens
1779	160202	Adrenomedullin Receptor (ADMIR)	Adrenomedullin Receptor (ADMIR)	O15218	484	KGDSQPAAAPHPPEPSLS	Homo sapiens
1780	160204	G Protein-Coupled Receptor RTA	G Protein-Coupled Receptor RTA	LR85	1977	CRARRRQRSTKLNHVILA	Homo sapiens

1781	160204	G Protein-Coupled Receptor RTA	LR85	1983	CPGLSEAPELYRRGFLTIEQ	Homo sapiens
1782	160204	G Protein-Coupled Receptor RTA	LR85	1985	RDGAELGEAGGSPNTVT	Homo sapiens
1783	160204	G Protein-Coupled Receptor RTA	LR85	2173	LAGRDKSQRLWEPLRV	Homo sapiens
1784	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1678	RTTRKWNKGCTHCYLAFNSD	Homo sapiens
1785	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1679	RAKLREGWVHANRPKR	Homo sapiens
1786	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1680	RRVMLKEIYHPRMLLI	Homo sapiens
1787	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1682	SALARAFGEEFFLSSC	Homo sapiens
1788	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1683	RSCSRKMNSSGGCLSEE	Homo sapiens
1789	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	151	PGPDRDATCNSRQAALAVSK	Homo sapiens
1790	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	152	SSHAAVSLRLQHRGRRRGR	Homo sapiens
1791	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	153	DDSELGGAGSSRRRTSSTA	Homo sapiens
1792	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	154	DGPPEPGAEGHLEPGPRR	Homo sapiens
1793	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2220	CPILEQMSRLQSHSNTSIRY	Homo sapiens
1794	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2221	RYIDHAAVLLHGLASLLGLV	Homo sapiens
1795	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2222	CRMRRQTVVTWVHLALSDL	Homo sapiens
1796	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2223	SASLPFFTYFLAVGHSWE	Homo sapiens
1797	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2224	CLVLWALAVLNTVPYFVFRD	Homo sapiens
1798	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2225	CYNNVLLNPGPDRDAT	Homo sapiens
1799	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2226	CNSRQAALAVSKFLAFLVP	Homo sapiens
1800	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2228	RGLPFVTSIAFFNSVANPVL	Homo sapiens

1801	160210	Receptor GPR44 (CRTH2) G Protein-Coupled	NP_004769.1	2229	CSRPEPRGPARLLGWLLGS	Homo sapiens
1802	160210	Receptor GPR44 (CRTH2) G Protein-Coupled	NP_004769.1	2230	CAASPQTGPLNRALSS	Homo sapiens
1803	160212	Receptor GPR44 (CRTH2) G Protein-Coupled	Q9Y2T5	444	KEINDRRARFPSHEVDSSRE	Homo sapiens
1804	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	445	CVKDQEAQEPKPRKRANS	Homo sapiens
1805	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	446	RWTEWRILNMSSGIVNASER	Homo sapiens
1806	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	622	HSCPLGFGHYSVVDVCIFE	Homo sapiens
1807	160217	Receptor GPR52 G Protein-Coupled	AAD22410.1	161	GKVEKVMCFHNMSDDTWSAK	Homo sapiens
1808	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	162	RSHILLGRRDHTQDWVQKQ	Homo sapiens
1809	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	163	CRAKQSIFFLQLSM	Homo sapiens
1810	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	164	KEFRMNIRAHRRPSRVQLVLQ	Homo sapiens
1811	160219	Receptor GPR55 G Protein-Coupled	AAC52028.1	2	AQRPTDVGGAEATRKAAR	Homo sapiens
1812	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	3	KEFQEASALAVAPRAKAHK	Homo sapiens
1813	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	123	GGFCFRSTRHNFNSMR	Homo sapiens
1814	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	125	ETIRRALYTSKLSDANC	Homo sapiens
1815	160221	Receptor GPR35 G Protein-Coupled	LR6	335	FPVLDGGGDEDEAPCALEQ	Homo sapiens
1816	160221	Receptor GPR27 G Protein-Coupled	LR6	338	RGARRLLVLEEFKTEKRLC	Homo sapiens
1817	160221	Receptor GPR27 G Protein-Coupled	LR6	496	NASEPGSGGGGEEAALGLK	Homo sapiens
1818	160221	Receptor GPR27 G Protein-Coupled	O54897	515	GLRALACLPVAVMLAARRA	Mus musculus
1819	160221	Receptor GPR27 G Protein-Coupled	LR6	1291	RPAGPGRGARRLLVLE	Homo sapiens

1820	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1606	CQRPPKQEDGGQSPV	Homo sapiens
1821	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1607	CNMIGDVTEQYFALRRK	Homo sapiens
1822	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1610	EGRADEQSAEAAALVP	Homo sapiens
1823	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1611	QNFVGRRRYGAEQNPTVK	Homo sapiens
1824	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1600	RFRSIKQSMGLSAAQKAK	Homo sapiens
1825	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1601	CDRFVAVVVALESRRR	Homo sapiens
1826	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1604	ATDHSRQEVSRHKGWKE	Homo sapiens
1827	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1605	KTDVTRLTHSRDTEELQS	Homo sapiens
1828	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP-2)	O60883	403	ETGEQQRSKRGTEDDEAK	Homo sapiens
1829	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP-2)	O60883	404	SPNPDKDGGTDPDGGQLR	Homo sapiens
1830	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP-2)	O60883	405	CQLVTWRVRGPPGRKSE	Homo sapiens
1831	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP-2)	O60883	406	AANGSDNKLKTEVSS	Homo sapiens
1832	160225	Spingolipid Receptor Edg6	CAA04118.1	70	PRDSFRGSRSLSRMRE	Homo sapiens
1833	160225	Spingolipid Receptor Edg6	CAA04118.1	71	ERFATMVRPVAESGATKTSR	Homo sapiens
1834	160225	Spingolipid Receptor Edg6	CAA04118.1	72	RLVQASGQKAPRPAAR	Homo sapiens
1835	160225	Spingolipid Receptor Edg6	CAA04118.1	73	RAVEAHSGASITDSSLRPD	Homo sapiens
1836	160225	Spingolipid Receptor Edg6	CAA04118.1	1914	IFRLVQASGQKAPRPAAR	Homo sapiens
1837	160225	Spingolipid Receptor Edg6	CAA04118.1	1915	DSSLRPDSFRGSRSLSRM	Homo sapiens
1838	160225	Spingolipid Receptor Edg6	CAA04118.1	1916	RSLSFRMREPLSSSVR	Homo sapiens
1839	160225	Spingolipid Receptor Edg6	CAA04118.1	1917	GPEDGGGLGALRGLSVAASC	Homo sapiens
1840	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1625	ANIGSLCVSFLQPKKE	Homo sapiens
1841	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1626	ETIFNAVMLWEDEVVE	Homo sapiens
1842	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1627	CNRKVVQAVRHNIKATENKE	Homo sapiens

1843	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1628	CILEHAVNFEDHSNSGKR	Homo sapiens
1844	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1629	CNTSQRQRKRILSVSTKD	Homo sapiens
1845	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	2303	CDAEKSNTFLCYDKYPLEK	Homo sapiens
1846	160300	Encephalopsin	NP_055137.1	2131	CTVDWKSNDANDSSFV	Homo sapiens
1847	160300	Encephalopsin	NP_055137.1	2132	CVEDLQTIQVILKYEK	Homo sapiens
1848	160300	Encephalopsin	NP_055137.1	2133	CQRPAAKDLPAAGSEMQRIP	Homo sapiens
1849	160300	Encephalopsin	NP_055137.1	2134	TSDESLSVDDSDKTIG	Homo sapiens
1850	160312	Spingolipid Receptor Edg5	O95136	1018	ERHVAIAKVKLYGSDKSC	Homo sapiens
1851	160312	Spingolipid Receptor Edg5	O95136	1019	RSRDLRREVLRPLQC	Homo sapiens
1852	160312	Spingolipid Receptor Edg5	O95136	1020	QEHYNYTKETLETQET	Homo sapiens
1853	160312	Spingolipid Receptor Edg5	O95136	1021	GRRRVGTPGHHLLPLR	Homo sapiens
1854	160314	G Protein-Coupled Receptor GPR103	ENSMPT221753	1922	MMIRKKAQFSLRENIPVEETKG	Homo sapiens
1855	160314	G Protein-Coupled Receptor GPR103	ENSMPT221753	1923	MMIEYSNFEKEYDDVTIKM	Homo sapiens
1856	160314	G Protein-Coupled Receptor GPR103	ENSMPT221753	1924	CEQTEEEKKLRHLALFRSE	Homo sapiens
1857	160314	G Protein-Coupled Receptor GPR103	ENSMPT221753	1925	KKRVGDGSLRTHGKEMSK	Homo sapiens
1858	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	463	DRARRERFIMNEKWDNNSSE	Homo sapiens
1859	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	464	RKNQEQWHVVSRRKKQKIHK	Homo sapiens
1860	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	465	RKSAEKPQQLVMEELKE	Homo sapiens
1861	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	500	RQSAGDRRRRLGLSRQTAK	Homo sapiens
1862	160324	G Protein-Coupled Receptor	NP_076403.1	1619	DRFLKIRPLRNIFLKKP	Homo sapiens
1863	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1620	MILSNKEATPSSVKKC	Homo sapiens
1864	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1622	VYDSYRKSCKDRKNIN	Homo sapiens
1865	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1623	ARVPYTHSGTNNKTDG	Homo sapiens

1866	160324	G Protein-Coupled Receptor	NP_076403.1	1624	CMQGRKTTASSQENHSSQTD	Homo sapiens
1867	160329	GPR86/GPR94/P2Y13	O76067	1308	CANDSDTLELPDSSRA	Homo sapiens
1868	160329	Proteinase-Activated Receptor 4	O76067	1309	PLRARALRGRRRLALGLC	Homo sapiens
1869	160329	Proteinase-Activated Receptor 4	O76067	1310	LQRQTFRLARSDRVLC	Homo sapiens
1870	160329	Proteinase-Activated Receptor 4	O76067	1311	RDKVRAGLFQRRSPGDT	Homo sapiens
1871	160330	G Protein-Coupled- Receptor TM7XN1/GPR56	Q9Y653	1213	CELKRDQLLSQFLKHPQK	Homo sapiens
1872	160330	G Protein-Coupled- Receptor TM7XN1/GPR56	Q9Y653	1214	TSVRFMGDMVSFEEDR	Homo sapiens
1873	160330	G Protein-Coupled- Receptor TM7XN1/GPR56	Q9Y653	1215	RQEEEQSEIMEYSVLLP	Homo sapiens
1874	160330	G Protein-Coupled- Receptor TM7XN1/GPR56	Q9Y653	1216	RTLFQRTKGRSGEAEKR	Homo sapiens
1875	160387	Glucagon-Like Peptide 2 Receptor	O95838	1312	GSLLEETTRKWAQYKQAC	Homo sapiens
1876	160387	Glucagon-Like Peptide 2 Receptor	O95838	1313	QTIENTADIWQDDSEC	Homo sapiens
1877	160387	Glucagon-Like Peptide 2 Receptor	O95838	1315	CPKKLSEGDGAELRK	Homo sapiens
1878	160387	Glucagon-Like Peptide 2 Receptor	O95838	1316	QQDHARWPRGSSLSEC	Homo sapiens
1879	160388	Latrophilin-1	O94910	1121	EPTSTHSEHQSGAWC	Homo sapiens
1880	160388	Latrophilin-1	O94910	1126	CEPREVRRVQWPATQQ	Homo sapiens
1881	160388	Latrophilin-1	O94910	1129	RSQDFPPGDGGPEPPR	Homo sapiens
1882	160388	Latrophilin-1	O94910	1131	CTAEDGATSRPLSSPPGRDS	Homo sapiens
1883	160388	Latrophilin-1	O94910	1706	RESAGKNYNKMHKRETC	Homo sapiens
1884	160388	Latrophilin-1	O94910	1707	RDSPSYDSSPEGPSEALP	Homo sapiens
1885	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1938	QVGPCRSLSRGRGSSGAC	Homo sapiens
1886	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1939	CRDAGTELIGHLVPHHDGLR	Homo sapiens

1887	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1940	CKLAQAPGLRAGERSPEESL	Homo sapiens
1888	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1942	RVSDIPEGVNSLDPSHGES	Homo sapiens
1889	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1943	RSGKSQPSYIPFLREES	Homo sapiens
1890	160397	Latrophilin-2	O95490	1132	CEALDSKGIKWPQTQR	Homo sapiens
1891	160397	Latrophilin-2	O95490	1133	DILDAQILQELKPSEKD	Homo sapiens
1892	160397	Latrophilin-2	O95490	1136	RTHSLLYQPQKKV/KSE	Homo sapiens
1893	160397	Latrophilin-2	O95490	1137	RDSPYPESPDMEEEL	Homo sapiens
1894	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1630	CQEQKMLRTLDLSYNNIRD	Homo sapiens
1895	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1631	CDSYANLNTEDNSLQD	Homo sapiens
1896	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1632	KGTAADAANVTSTLENEE	Homo sapiens
1897	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1633	ERLSAKDIMKNGKSNHLK	Homo sapiens
1898	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1634	CNLEKEDLSENSQSSMIK	Homo sapiens
1899	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1635	KRRVTKKSGSVSVSIS	Homo sapiens
1900	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1636	CGTQSAHSDYADEEDS	Homo sapiens
1901	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1637	DEEDSFVSDSDQVQAC	Homo sapiens
1902	160435	LS160435 Receptor	LR80	1918	ATILKLRTEEAHGREQRR	Homo sapiens
1903	160435	LS160435 Receptor	LR80	1919	CRRVPRDTLDIRRESLFSAR	Homo sapiens
1904	160435	LS160435 Receptor	LR80	1920	PLSSKRWRRRRYAVAAC	Homo sapiens
1905	160435	LS160435 Receptor	LR80	1921	CRRMGPRSPSVIFMINL	Homo sapiens
1906	160889	Platelet Activating Receptor Homolog (H963)	O14626	1223	MMIPIKDIKEKSNVGC	Homo sapiens
1907	160889	Platelet Activating Receptor Homolog (H963)	O14626	1224	CLVIRQLYRNKDNENYP	Homo sapiens
1908	160889	Platelet Activating Receptor	O14626	1225	CSTRISLFKAKEATLL	Homo sapiens

1909	160889	Homolog (H963) Platelet Activating Receptor	O 14626	1226	ETFASPKETKAQKEKLR	Homo sapiens
1910	161024	Homolog (H963) Protein A	NP_062832.1	1690	ESRAVGLPLGLSAGRRC	Homo sapiens
1911	161024	Protein A	NP_062832.1	1691	EDARGKRRSSLDGSESAK	Homo sapiens
1912	161024	Protein A	NP_062832.1	1692	RTVWEQCVAIMSEEDGD	Homo sapiens
1913	161024	Protein A	NP_062832.1	1693	CKVRFDANGATGPGSRD	Homo sapiens
1914	161024	Protein A	NP_062832.1	1694	RRLSHDETINIFSTPE	Homo sapiens
1915	161024	Protein A	NP_062832.1	1695	GGPPEYLGQHRLEDEED	Homo sapiens
1916	161024	Protein A	NP_062832.1	1696	REEITFIDETPLPSP	Homo sapiens
1917	161024	Protein A	NP_062832.1	1697	RRPRPLGSPRRRLSLGSP	Homo sapiens
1918	161214	Galanin Receptor GalR3	AAC35944.1	202	RYGALELCVPAWEDARR	Homo sapiens
1919	161214	Galanin Receptor GalR3	AAC35944.1	203	GAAAAEARRRATGRAGR	Homo sapiens
1920	161214	Galanin Receptor GalR3	AAC35944.1	204	ASRHFRARFRRLWPC	Homo sapiens
1921	161214	Galanin Receptor GalR3	AAC35944.1	205	RARRALRRVRPSSGPP	Homo sapiens
1922	161221	Urotensin-II Receptor (GPR14)	LR15	371	ERYAAVLRPLDTVQRPKG	Homo sapiens
1923	161221	Urotensin-II Receptor (GPR14)	LR15	372	RAYRRSQRASFKRARRPGAR	Homo sapiens
1924	161221	Urotensin-II Receptor (GPR14)	LR15	373	RNYRDHLRGRVRGPGSG	Homo sapiens
1925	161221	Urotensin-II Receptor (GPR14)	LR15	374	RARFQRCSGRSLSCSPQPTD	Homo sapiens
1926	161249	G Protein-Coupled Receptor GPR66	LR20	394	ARGHFDPEDLNLTDALRLK	Homo sapiens
1927	161249	G Protein-Coupled Receptor GPR66	LR20	395	IGLRLRRERLLMQEAKGRG	Homo sapiens
1928	161249	G Protein-Coupled Receptor GPR66	LR20	396	RGSAAAARSRYTCRLQQH	Homo sapiens
1929	161249	G Protein-Coupled Receptor GPR66	LR20	397	ALCLGACCHRLRPRHSS	Homo sapiens
1930	161251	Purinergic Receptor P2Y10	O00398	859	CFLLKPFRRARDWKRRYD	Homo sapiens
1931	161251	Purinergic Receptor P2Y10	O00398	860	PFPILRSTDLNKKSC	Homo sapiens
1932	161251	Purinergic Receptor P2Y10	O00398	862	QLSRHGSSTVTRSLMSKE	Homo sapiens
1933	161251	Purinergic Receptor P2Y10	O00398	863	LRQPPMAFGGISERQK	Homo sapiens
1934	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1672	YYDDLDDVDVEESAPC	Equine herpesvirus 2

1935	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1674	CDPYPEMSTNVWRRRAHVAK	Equine herpesvirus 2
1936	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1675	CYYVIIRLLRRPSKK	Equine herpesvirus 2
1937	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1676	CKYIPFLSGDGEKGEPT	Equine herpesvirus 2
1938	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1820	RNLTSSPAPTASPSAPS	Homo sapiens
1939	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1821	PSWTPSPRPGPAHPFLQPP	Homo sapiens
1940	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1822	RSSHQKRGTRDVGSNVC	Homo sapiens
1941	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1823	KSTSTTASFVSSSHMSVEE	Homo sapiens
1942	177168	Cysteinyl Leukotriene C ₁ SLT1 Receptor	Q9Y271	1317	TSSPFLMAKPQKDEKNNTKC	Homo sapiens
1943	177168	Cysteinyl Leukotriene C ₁ SLT1 Receptor	Q9Y271	1318	KKSMKKNLSSHKKAIG	Homo sapiens
1944	177168	Cysteinyl Leukotriene C ₁ SLT1 Receptor	Q9Y271	1319	QRTIHLHLHNETKPC	Homo sapiens
1945	177168	Cysteinyl Leukotriene C ₁ SLT1 Receptor	Q9Y271	1320	RKHSLSSTVYVPRKKASLPE	Homo sapiens
1946	177191	Histamine H3 Receptor	Q9Y5N1	474	RAVSYRAQGGDTTRRAVRK	Homo sapiens
1947	177191	Histamine H3 Receptor	Q9Y5N1	475	QRRTRLRDGAREAAGPE	Homo sapiens
1948	177191	Histamine H3 Receptor	Q9Y5N1	476	QSFTQRFRLSRDRKVA	Homo sapiens
1949	177191	Histamine H3 Receptor	Q9Y5N1	477	RYGVGEAAVGAEAGEATLG	Homo sapiens
1950	177191	Histamine H3 Receptor	Q9Y5N1	1477	SSRGTERPSLRGSKPSAS	Homo sapiens
1951	177191	Histamine H3 Receptor	Q9Y5N1	1479	KPSASSASLEKRMKMVS	Homo sapiens
1952	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2052	RTLFSFYFRDTPRANR	Homo sapiens
1953	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2053	RPEMSRGLLAVRGAFV	Homo sapiens
1954	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2059	CAVLSHRRAQPPWALLV	Homo sapiens
1955	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2733	RVLVSDSLFVICALSL	Homo sapiens

1956	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1014	KRKTNVLSPTSGSIS	Homo sapiens
1957	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1015	CFSQENPERPSRIPST	Homo sapiens
1958	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1016	SYKDEDMYGTMKKMIC	Homo sapiens
1959	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1017	VERHMSIMRMVRHSN	Homo sapiens
1960	189873	G Protein-Coupled Receptor GPR78	LR37	443	CQRMDTVTMKALLAD	Homo sapiens
1961	189873	G Protein-Coupled Receptor GPR78	LR37	528	CSLRLPPEPERPFAAFTAT	Homo sapiens
1962	189873	G Protein-Coupled Receptor GPR78	LR37	533	RGPLPPGICAHSAQGAIRR	Homo sapiens
1963	189873	G Protein-Coupled Receptor GPR78	LR37	534	CRQAQARDLGAPWAVGLRSL	Homo sapiens
1964	189874	Neuromedin U Receptor 2	LR28	420	QQKLEDPPGKHUNSTEE	Homo sapiens
1965	189874	Neuromedin U Receptor 2	LR28	422	KKDKSLEADEGNANIGRPC	Homo sapiens
1966	189874	Neuromedin U Receptor 2	LR28	423	SQHDPQLPPAQRNIFLTC	Homo sapiens
1967	189874	Neuromedin U Receptor 2	LR28	487	ILHPFRAKLQSTRRALR	Homo sapiens
1968	189884	G Protein-Coupled Receptor Ls189884	LR27	415	CKKRGTKTQNLNRNQIRSK	Homo sapiens
1969	189884	G Protein-Coupled Receptor Ls189884	LR27	418	EKPSSPSSGKGKTEKAE	Homo sapiens
1970	189884	G Protein-Coupled Receptor Ls189884	LR27	419	PSVQDNDPIPWEHEDQETGE	Homo sapiens
1971	189884	G Protein-Coupled Receptor Ls189884	LR27	486	KKPPTVSESQETPAGNSEG	Homo sapiens
1972	189884	G Protein-Coupled Receptor Ls189884	LR27	1832	LVMSEFFREGLGKGVWK	Homo sapiens
1973	189884	G Protein-Coupled Receptor Ls189884	LR27	1833	GLPDKV/PSPESPASIPEK	Homo sapiens
1974	189884	G Protein-Coupled Receptor Ls189884	LR27	1834	PDVEQFWHERDTPSVQ	Homo sapiens
1975	189884	G Protein-Coupled Receptor Ls189884	LR27	1835	RHHEGVEMCLVDVPAVAEE	Homo sapiens
1976	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1685	RVPQTGPSTASGVPE	Homo sapiens
1977	189895	G Protein-Coupled	AAK12637.1	1686	ETPRQRSESLSSRSTMVTS	Homo sapiens

1778	189895	Receptor GPR61	AAK12637.1	1687	SSGAPQTPIHRTFGGK	Homo sapiens
1779	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1688	KPAPEEELRLPSREGSIEE	Homo sapiens
1780	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1689	CPSESWVSRPLSPKQE	Homo sapiens
1781	189900	Receptor GPR61	LR1	312	TGKLRGARYQPGAGLRAD	Homo sapiens
1782	189900	Sphingolipid Receptor Edg8	LR1	316	ALERSLTIMARRGPAPVSS	Homo sapiens
1783	189900	Sphingolipid Receptor Edg8	LR1	317	DGSFSGSERSPQRDGLD	Homo sapiens
1784	189900	Sphingolipid Receptor Edg8	LR1	318	CGRDPSGSGQQSASAAEASG	Homo sapiens
1785	189901	Sphingolipid Receptor Edg8	ENSP000000071589	2266	ASRKAEAIGKLKVGGEVS	Homo sapiens
1786	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2270	SCLSYRVGTKPSASLR	Homo sapiens
1787	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2271	RVDYVLLHETWRFGAAC	Homo sapiens
1788	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2272	HQSRALLGLTRGRQGPVSD	Homo sapiens
1789	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2273	CIHTRPWTSNTVFLVSL	Homo sapiens
1790	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2274	RGRQGPVDESSYQPSR	Homo sapiens
1791	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2108	IDRYLIJKYPFRELHLQKKE	Homo sapiens
1792	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2109	TDNGTTCNDFASSGDPN	Homo sapiens
1793	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2110	FLKQRNRQVATAUPL	Homo sapiens
1794	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2111	RNVRIASRLGSKWQYQC	Homo sapiens
1795	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2112	GDHFRDMLMNQLRHNFKS	Homo sapiens

1996	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1721	CVAFPLAVGNPDLQIPSR	Homo sapiens
1997	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1722	NTLRHNAURHISYPEGIC	Homo sapiens
1998	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1723	QASKLGLVLSLRPFQMSID	Homo sapiens
1999	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1724	DMMPKSFKFLPQLPGHTKRR	Homo sapiens
2000	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1715	QNLKDPVQIKIKHTRTQE	Homo sapiens
2001	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1716	KNKSGGWNTSGCVAHRD	Homo sapiens
2002	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1717	RNNNEWVGESYGKEKGDE	Homo sapiens
2003	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1718	CGRNGKRSNRTLREEVLR	Homo sapiens
2004	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1719	TSKSKSSSTTVFKRNSHTD	Homo sapiens
2005	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1720	DKSLSLAHADGDQTS	Homo sapiens
2006	190026	G Protein-Coupled Receptor JEG18	LR24	407	LFPLRTSDDTPGNRTKC	Homo sapiens
2007	190026	G Protein-Coupled Receptor JEG18	LR24	408	QDKYPMAQDLGEKQKALK	Homo sapiens
2008	190026	G Protein-Coupled Receptor JEG18	LR24	409	SFPLDFLVKSNEIKSC	Homo sapiens
2009	190026	G Protein-Coupled Receptor JEG18	LR24	410	RRRLSRQDLHDSIQIHAK	Homo sapiens
2010	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1725	KGEAKLDSRAKDVTLTQE	Homo sapiens
2011	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1727	DHKEQPIVTENAERQLVWKD	Homo sapiens
2012	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1728	EDFEEQTLTJFLDGERERK	Homo sapiens
2013	190031	G Protein-Coupled	AAD55586.1	1729	EGKEGDYIRIPERLLDVQD	Homo sapiens

2014	190168	Receptor VLGR1 G Protein-Coupled Receptor GPR58	AAF27278.1	324	SEAYADGIEGYDILVACSSS	Homo sapiens
2015	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	326	NNLRNQNNGVKKDKKAAK	Homo sapiens
2016	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	379	DPFLNFSTPVVLFDAIT	Homo sapiens
2017	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	380	GKIFSSCFHNTILCMQKE	Homo sapiens
2018	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	327	CPKFVNKILSSHQPLFS	Homo sapiens
2019	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	328	KQHARVISHVPENTKGAVKK	Homo sapiens
2020	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	329	ENTKGAVKKHLSKKKDRKA	Homo sapiens
2021	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	330	CKFHTSFDMMRLTSI	Homo sapiens
2022	190188	G Protein-Coupled Receptor LGR6	LR36	439	ENHDQDLDELQLEMEDSKP	Homo sapiens
2023	190188	G Protein-Coupled Receptor LGR6	LR36	440	NPHFRDDLRLRPAGDS	Homo sapiens
2024	190188	G Protein-Coupled Receptor LGR6	LR36	442	EDUHLDDDESSKRPLGLLAR	Homo sapiens
2025	190188	G Protein-Coupled Receptor LGR6	LR36	621	DSGPLAYAAAGELEKSSC	Homo sapiens
2026	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1836	CAARRQHALLYNVKRSLE	Homo sapiens
2027	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1837	DGSLKAKEGSTGTSESV	Homo sapiens
2028	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1838	CSIDLGEDGMEFGEDDIN	Homo sapiens
2029	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1839	SEDDVEAVNIPESLPSS	Homo sapiens
2030	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1840	MHKTIKKEIQDMLKKFFC	Homo sapiens
2031	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1841	KEDSHPDLPGTGGTEG	Homo sapiens
2032	190418	Inflammation-Related G Protein-Coupled Receptor	LR8	343	RQVKRAAQALDQYKLRQAS	Homo sapiens

2033	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	344	RTDEAMPGRFQELDSRLASG	Homo sapiens
2034	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	345	DSSEVGDQINSKRAKQMAEK	Homo sapiens
2035	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	346	KAQPIKGARRAPDSSEFGK	Homo sapiens
2036	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2716	RRKSNFRLRGYSTGKT	Homo sapiens
2037	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2717	RRQKSSVNYLLALAAAD	Homo sapiens
2038	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2719	CFLTSPYVWWPNWIT	Homo sapiens
2039	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2725	CSIFFILNSIIVYKLR	Homo sapiens
2040	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2754	GRUYSLLSFISIPH	Homo sapiens
2041	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2755	FFLFLWIHVIRE	Homo sapiens
2042	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2756	MDPTISTLDTLTP	Homo sapiens
2043	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	471	ASSIMLLDSGSEQNGSVTSC	Homo sapiens
2044	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	472	RVLLKVEVPESGLRVSHRK	Homo sapiens
2045	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	473	KDRLKSALRKGHPQAKATKC	Homo sapiens
2046	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	512	MEPNGTFSNNNSRNC	Homo sapiens
2047	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2253	CTIENFKREFFPIVYLIIF	Homo sapiens
2048	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2254	GVLGNGLSIYVFLQPYK	Homo sapiens
2049	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2255	ADYYLRGSNWIFGDLAC	Homo sapiens
2050	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2256	FRLLHVTSIRSAWILC	Homo sapiens

2051	190427	Receptor	Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2257	CGIIWILIMASSIMILDSGS	Homo sapiens
2052	190427	Receptor	Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2258	CLELNLYKIAKLQTMNYIAL	Homo sapiens
2053	190427	Receptor	Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2260	VSHRKALTTIITLIIFLC	Homo sapiens
2054	190427	Receptor	Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2261	CFLPYHTLRTVHLTWKVGL	Homo sapiens
2055	190427	Receptor	Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2262	CKDRLHKALVITLALA	Homo sapiens
2056	190427	Receptor	Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2263	YFAGENFKDRLKSALRKG	Homo sapiens
2057	190427	Receptor	Cysteinyl Leukotriene C ₅ SLT ₂	NP_065110.1	2264	HPQKAKTKCVFPVSVWLKE	Homo sapiens
2058	190437	G Protein-Coupled Receptor C ₅ L ₂	LR31		429	DSVSYEYGDYSDLSDRPVDC	Homo sapiens
2059	190437	G Protein-Coupled Receptor C ₅ L ₂	LR31		430	RESQGGQDESVDKSTSHD	Homo sapiens
2060	190437	G Protein-Coupled Receptor C ₅ L ₂	LR31		431	PSAIYRRLHQEHFPARLQC	Homo sapiens
2061	190437	G Protein-Coupled Receptor C ₅ L ₂	LR31		432	CHWALRESGGQDESVDKSKS	Homo sapiens
2062	190437	G Protein-Coupled Receptor C ₅ L ₂	NP_060955.1		2818	MGNDSVSYEYGDYSDLSDRPVDC	Homo sapiens
2063	190438	G Protein-Coupled Receptor Ls190438	ENSP00000080322		2585	TERLKIRWHTSDNQVRPQAC	Homo sapiens
2064	190484	G Protein-Coupled Receptor Ls190484	LR33		434	EADLGATGHRPRTELDDED	Homo sapiens
2065	190484	G Protein-Coupled Receptor Ls190484	LR33		435	RTCHRQGGQPAACRGFARVAR	Homo sapiens
2066	190484	G Protein-Coupled Receptor Ls190484	LR33		436	EERPGSFTPEPTQLDSEG	Homo sapiens
2067	190484	G Protein-Coupled Receptor Ls190484	LR33		437	RSDPTAQPQLNPTAQPSQSD	Homo sapiens
2068	190595	G Protein-Coupled Receptor SH120	NP_057418.1		1730	RNVTDTDILALERRLLQ	Homo sapiens
2069	190595	G Protein-Coupled Receptor SH120	NP_057418.1		1731	KKKRMAMARRTMFQKGE	Homo sapiens

2070	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1732	KSVTTSASGSENILUQQE	Homo sapiens
2071	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1733	EVDALIELSRQLFLETAD	Homo sapiens
2072	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1734	DRVGKIDPVTRGIEIT	Homo sapiens
2073	190599	G Protein-Coupled Receptor GPRC5B	O75205	411	VRLPFIKEKEKKSPVGLH	Homo sapiens
2074	190599	G Protein-Coupled Receptor GPRC5B	O75205	412	DEHNAALRTAGFPNGSLGKR	Homo sapiens
2075	190599	G Protein-Coupled Receptor GPRC5B	O75205	413	GKRPSGSLGKRPSAPFRSNV	Homo sapiens
2076	190599	G Protein-Coupled Receptor GPRC5B	O75205	414	SQPRMIRETAFEEDVQLPR	Homo sapiens
2077	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	542	GDPAIYQSLKAQNAYSRHC	Homo sapiens
2078	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	543	PFSHSSSYTVRSKKIFLSKL	Homo sapiens
2079	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	619	GKILLNLTGMRRKNTCQN	Homo sapiens
2080	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	620	EEVTILVQAIRITSYMNE	Homo sapiens
2081	190623	Melanopsin	AAF24978.1	2137	CKGNESLWQRQRLOSE	Homo sapiens
2082	190623	Melanopsin	AAF24978.1	2138	RHSRPYSYRSTHIRST	Homo sapiens
2083	190623	Melanopsin	AAF24978.1	2139	TSHTSNLSWISIRRRQE	Homo sapiens
2084	190623	Melanopsin	AAF24978.1	2140	DLEAKAPRPQGHEAET	Homo sapiens
2085	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1735	KLQRRPVAVDVLLNLTASD	Homo sapiens
2086	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1736	KTRPRLGQAGLVSVAC	Homo sapiens
2087	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1737	EFSGDISHSQGTNGTC	Homo sapiens
2088	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1738	SRLVWILGRGGSHRRQRR	Homo sapiens
2089	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1739	GQWQQESSMELKEQKGG	Homo sapiens
2090	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1740	EEQRADRPAAERTSEHSQGC	Homo sapiens
2091	190627	G Protein-Coupled	NP_005295.1	2569	MDTGPDQSYFSGNHWVFSV	Homo sapiens

2092	190701	Receptor GPR41 & GPR42 C-C Chemokine Receptor 11	AAF61299.1	1441	VAIVAVYKKQRTKTDV	Homo sapiens
2093	190701	C-C Chemokine Receptor 11	AAF61299.1	1442	VAVTKVPSQSGVGKPCWII	Homo sapiens
2094	190701	C-C Chemokine Receptor 11	AAF61299.1	1443	CNMSKRMDIAIQVTESI	Homo sapiens
2095	190701	C-C Chemokine Receptor 11	AAF61299.1	1444	RQSVVEFFDSEGPTEP	Homo sapiens
2096	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1741	GHPPGSGGAESADTEARVR	Homo sapiens
2097	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1742	HSVASALKSHRIRGHGRGDC	Homo sapiens
2098	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1743	KGGAAVAGGRPTGASARR	Homo sapiens
2099	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1744	CLVRREFRKALKSLLWR	Homo sapiens
2100	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1745	RPFTATTKPEHEDQGLQ	Homo sapiens
2101	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	339	AFPPVLDVGTYSFIREEDQC	Homo sapiens
2102	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	340	HDRRKMKPVQFVAAVSQN	Homo sapiens
2103	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	341	RRRLVLDEFKMEKRISR	Homo sapiens
2104	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	342	LRRCFSTILLYCRKSRLPRE	Homo sapiens
2105	190725	G Protein-Coupled Receptor GPR26	LR26	554	PLTLAGVVARRQPAQDRLC	Homo sapiens
2106	190725	G Protein-Coupled Receptor GPR26	LR26	555	CSRRPDERLRFAVFTGA	Homo sapiens
2107	190725	G Protein-Coupled Receptor GPR26	LR26	557	CKEILNRLLRHSIHSSG	Homo sapiens
2108	190725	G Protein-Coupled Receptor GPR26	LR26	567	CLEEQKRRRQRATKKIST	Homo sapiens
2109	190741	Sreb3	LR9	516	EPEEVSGALSPPSASAYVK	Homo sapiens
2110	190741	Sreb3	LR9	519	NGHAASRRLGMDEVKGEK	Homo sapiens
2111	190741	Sreb3	LR9	526	KKCLRTHAPCWGTGGAPAPR	Homo sapiens
2112	190741	Sreb3	LR9	527	VLMAATHAVVYGLLFEYR	Homo sapiens

2113	190742	G Protein-Coupled Receptor H7TBA62	LR23	550	RRAPGPPSDTFVFNIALAD	Homo sapiens
2114	190742	G Protein-Coupled Receptor H7TBA62	LR23	551	QRRQRRRQDSRVVARSVR	Homo sapiens
2115	190742	G Protein-Coupled Receptor H7TBA62	LR23	552	RREPRQALAGTFRDLRSR	Homo sapiens
2116	190742	G Protein-Coupled Receptor H7TBA62	LR23	553	KQVGRRWVASNPRESRPS	Homo sapiens
2117	190743	G Protein-Coupled Receptor GPRC5D	LR32	558	KDCIESTGDYFLLCDAEGP	Homo sapiens
2118	190743	G Protein-Coupled Receptor GPRC5D	LR32	569	VENQELSRGTFLGDSGSR	Homo sapiens
2119	190743	G Protein-Coupled Receptor GPRC5D	LR32	570	GDSGSREVLLQEKQKKNHA	Homo sapiens
2120	190743	G Protein-Coupled Receptor GPRC5D	LR32	571	SMLLRGNPQFQRQPQWDDP	Homo sapiens
2121	190744	G Protein-Coupled Receptor GPRC5C	LR34	529	KVPSEELTSSSHGPPPTAR	Homo sapiens
2122	190744	G Protein-Coupled Receptor GPRC5C	LR34	532	RGSGEGGPQGNSSAGWAV	Homo sapiens
2123	190744	G Protein-Coupled Receptor GPRC5C	LR34	535	QDTKRSLLGTQVFFLLGT	Homo sapiens
2124	190744	G Protein-Coupled Receptor GPRC5C	LR34	538	KEQKGQSMFVENKAFSMDE	Homo sapiens
2125	190745	G Protein-Coupled Receptor LGR7	LR40	560	TATEIRNQVKKEMILAKR	Homo sapiens
2126	190745	G Protein-Coupled Receptor LGR7	LR40	561	NYRQRKSMDSKGQKYAPS	Homo sapiens
2127	190745	G Protein-Coupled Receptor LGR7	LR40	565	SCSNLTVLMRKKNKINHLN	Homo sapiens
2128	190745	G Protein-Coupled Receptor LGR7	LR40	566	DELDLGSNKIENLPPIFKD	Homo sapiens
2129	190748	GPCR Ls190748	LR47	546	QLSSPSRPTQKTLCSLR	Homo sapiens
2130	190748	GPCR Ls190748	LR47	547	DMLKIASMHQQIRKMEHAG	Homo sapiens
2131	190748	GPCR Ls190748	LR47	548	AGGYRSPRTPSDFKALRTVS	Homo sapiens
2132	190748	GPCR Ls190748	LR47	549	RESSCHIVTSSSEFDG	Homo sapiens
2133	190748	GPCR Ls190748	LR47	1481	GVKKVLTSLFLLSARNC	Homo sapiens
2134	190748	GPCR Ls190748	LR47	1482	NSLLNPLIYAVWQKEVRLQ	Homo sapiens
2135	190749	G Protein-Coupled	LR48	467	RRAALRPPRPARGSLRSD	Homo sapiens

2136	190749	Receptor GPR62	LR48	468	RPVRLALGLRLRRALPGPVR	Homo sapiens
2137	190749	G Protein-Coupled Receptor GPR62	LR48	510	DSRLSLPPLRPRLPGGK	Homo sapiens
2138	190749	G Protein-Coupled Receptor GPR62	LR48	511	RPPEGPAVGPSEAEQIPE	Homo sapiens
2139	190749	Receptor GPR62	LR48	2702	VVARRAALRPPRPA	Homo sapiens
2140	190749	G Protein-Coupled Receptor GPR62	LR48	2703	PSEAEQIPELAGGR	Homo sapiens
2141	190749	G Protein-Coupled Receptor GPR62	LR48	2704	GPSEAEQIPELAG	Homo sapiens
2142	190774	Histamine H4 Receptor	NP_067637.2	2235	PDTNSTINLSLSTRVLAFF	Homo sapiens
2143	190774	Histamine H4 Receptor	NP_067637.2	2237	VVDKNLRHRSSVFFLN	Homo sapiens
2144	190774	Histamine H4 Receptor	NP_067637.2	2240	LYIPHTLFEWDFGKEIC	Homo sapiens
2145	190774	Histamine H4 Receptor	NP_067637.2	2242	TQHTGVLKIVILMVAV	Homo sapiens
2146	190774	Histamine H4 Receptor	NP_067637.2	2243	VNGPMILVSESWKDEGSEC	Homo sapiens
2147	190774	Histamine H4 Receptor	NP_067637.2	2244	CEPGFFSEWYLAITSFL	Homo sapiens
2148	190774	Histamine H4 Receptor	NP_067637.2	2245	AYFNMINYWSLWKRDLHSLRC	Homo sapiens
2149	190774	Histamine H4 Receptor	NP_067637.2	2246	CGHSFRGRLSSRRSL	Homo sapiens
2150	190774	Histamine H4 Receptor	NP_067637.2	2247	IASKMGFSQSDSVLHQRE	Homo sapiens
2151	190774	Histamine H4 Receptor	NP_067637.2	2249	IVLSFYSSATGPKSVWYRIA	Homo sapiens
2152	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2085	IIRVTVPGKTGTAC	Homo sapiens
2153	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2086	SPWTNDPKERINVAVA	Homo sapiens
2154	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2087	RIRELLQGMVKEIGIADV	Homo sapiens
2155	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2088	TQTSDTATNSTLPSAE	Homo sapiens
2156	190824	Formyl Peptide Receptor-like 2 (FPR2)	LR14	481	TEVPDSAQTSNTHITSAS	Homo sapiens
2157	190824	Formyl Peptide Receptor-like 2 (FPR2)	LR14	522	GDTAVERLNVFITMAKV	Homo sapiens
2158	190824	Formyl Peptide Receptor-like 2 (FPR2)	LR14	523	MSLAKRVMTGLWIFTI	Homo sapiens
2159	190824	Formyl Peptide Receptor-like 2 (FPR2)	LR14	525	LHFIIGFTVPMISITV	Homo sapiens

2160	190948	like 2 (FPRL2)	NP_038475.1	1658	DELLEAPGDLETLPRLQQHC	Homo sapiens
2161	190948	EMR2 Hormone Receptor	NP_038475.1	1659	CVASHLLDGLDVLRLGSKN	Homo sapiens
2162	190948	EMR2 Hormone Receptor	NP_038475.1	1660	KSGDPGPSVAVGLVSPG	Homo sapiens
2163	190948	EMR2 Hormone Receptor	NP_038475.1	1661	SKGIRKLKTESEMHTLSS	Homo sapiens
2164	190948	EMR2 Hormone Receptor	NP_038475.1	1662	ELSLEVQKQVDRSVTLRQNG	Homo sapiens
2165	190948	EMR2 Hormone Receptor	NP_038475.1	1663	EPEKQMLLHETHQGLLDGGS	Homo sapiens
2166	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1492	KRMQKRSVTALMVNLALAD	Homo sapiens
2167	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1493	RPFVSQLRTKAMARR	Homo sapiens
2168	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1494	ASYSDIGRRRLQARRFR	Homo sapiens
2169	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1495	LEGTGSEASSTRRGGG	Homo sapiens
2170	191039	Trace Amine Receptor 1 (TA1)	LR122	2039	RKALKMIMLFQKIFQKDSRC	Homo sapiens
2171	191039	Trace Amine Receptor 1 (TA1)	LR122	2040	QIGLEMKNGISQSKERKAV	Homo sapiens
2172	191039	Trace Amine Receptor 1 (TA1)	LR122	2041	RIYLIAKEQARLUSDANQK	Homo sapiens
2173	191039	Trace Amine Receptor 1 (TA1)	LR122	2042	ELNFKGAEEIYKHHVC	Homo sapiens
2174	191039	Trace Amine Receptor 1 (TA1)	LR122	2043	CVKNNWSNDVRASLYS	Homo sapiens
2175	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1569	SAEPPADWDGAGGSYRLRG	Homo sapiens
2176	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1571	GIVRRVRVSVKRVSVLN	Homo sapiens
2177	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1572	RNEEFRSRVSVLPVGDA	Homo sapiens
2178	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1573	CEEEESWAGRRIPVSLLYSG	Homo sapiens
2179	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1651	CYLGIVRRVRVSVKRV	Homo sapiens
2180	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1544	KELYRSYVTRGVGKVP	Homo sapiens
2181	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1545	ILTNRQPRDKNVKKCS	Homo sapiens

2182	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1546	CPNSATSLSQDNRRKKEQDGG	Homo sapiens
2183	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1570	TTTTFKTSNPKNLLGAK	Homo sapiens
2184	191193	Trace Amine Receptor 3 (TA3)	LR88	1969	ANEEGIEELVVA	Homo sapiens
2185	191193	Trace Amine Receptor 3 (TA3)	LR88	2316	RKIESTASQAQSS	Homo sapiens
2186	191193	Trace Amine Receptor 3 (TA3)	LR88	2571	LVDVIDAYMNF	Homo sapiens
2187	191193	Trace Amine Receptor 3 (TA3)	LR88	2573	RTDSSTNLFSEEVET	Homo sapiens
2188	191196	G Protein-Coupled Receptor GPR80	IP_13092	1864	NASDFPDYAAAFGNCTDE	Homo sapiens
2189	191196	G Protein-Coupled Receptor GPR80	IP_13092	1865	TELITSTNRTNRSACLD	Homo sapiens
2190	191196	G Protein-Coupled Receptor GPR80	IP_13092	1866	TLTHGLQTDSCCLKQKARR	Homo sapiens
2191	191196	G Protein-Coupled Receptor GPR80	IP_13092	1867	RLLSISCSIQIHEA	Homo sapiens
2192	191196	G Protein-Coupled Receptor GPR80	IP_13092	1868	QQAVCVSTVRCKVSGNLE	Homo sapiens
2193	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2749	QDIAEVDHSEGCF	Homo sapiens
2194	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2750	RKQWRLQQPILKLA	Homo sapiens
2195	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2751	CSISINFPSTFTVMTC	Homo sapiens
2196	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2752	QWFLILWIKDSDV	Homo sapiens
2197	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2575	AFLSDNTIEVRINRTLKK	Homo sapiens
2198	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2576	QETKNEFRNLKQIQSKC	Homo sapiens
2199	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2577	CNNKTHWAPVRSTM	Homo sapiens
2200	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2581	TKMAEYDLQNDVFIIPD	Homo sapiens
2201	193511	EGF-Like Module-Containing	AAK15076.1	1665	CQDITSSKTEGRKELQKIV	Homo sapiens

2202	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1666	RDVESKVLTKDPEQK	Homo sapiens
2203	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1667	KIGNDSVAIETQAITDNC	Homo sapiens
2204	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1668	CSEERKTFNLNVQMNSMDIR	Homo sapiens
2205	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1669	EEMDKKDQVVLNSQVWSAA	Homo sapiens
2206	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1670	SKSVTLTFQHVKMTPTSK	Homo sapiens
2207	193516	Mucin-Like Receptor EMR3 G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2142	CLLLPTAVIVFSYVKIIAK	Homo sapiens
2208	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2144	RPDSIPQLSVVPTLLA	Homo sapiens
2209	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2145	CQTGGGLKATKKKSLEG	Homo sapiens
2210	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2146	RUHTVTVRKSSAVLE	Homo sapiens
2211	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2620	PTAVIVFSYVKIIAKV	Homo sapiens
2212	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	1947	KLAQRRLREVLTGHTDHYFSQID	Homo sapiens
2213	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	1948	CALQITWGSERRRLGLDTSKD	Homo sapiens
2214	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2734	RGRRRQSAARNRSGPPEQPNE	Homo sapiens
2215	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2735	RNSRGPPEQPNEELG	Homo sapiens
2216	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2736	AQVREDVRPHTVVLRL	Homo sapiens
2217	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2742	QLDQVPSRHPSPRE	Homo sapiens

2218	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2744	LDLSLRSSNSREQLDQV	Homo sapiens
2219	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1903	REEHHFMDARNRSPLYSC	Homo sapiens
2220	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1904	PGPAPGGEAAADPRASRR	Homo sapiens
2221	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1905	CPRPSGSHKEAYSERPGGILL	Homo sapiens
2222	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1906	PSSGAPRPGRLPLRNGRVA	Homo sapiens
2223	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2018	FLGKNDIDIKTKKELIVN	Homo sapiens
2224	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2019	QVTYRDSKEKRDLRNFK	Homo sapiens
2225	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2020	CERTKIWGTFKINERFTND	Homo sapiens
2226	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2021	SKYANGIEIQLKKAYER	Homo sapiens
2227	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2022	CIVVFIVRTERSUHAP	Homo sapiens
2228	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2023	KILALFWFDSREISFEAC	Homo sapiens
2229	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2024	CVHQDVMKLAYADTLP	Homo sapiens
2230	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2027	RFGNSLHPVIRVVMGD	Homo sapiens
2231	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2028	KTKQIRTRVLAMFKISC	Homo sapiens
2232	194743	FLJ14454	LR77	1855	KTDENEQDQASASVDMVFSP	Homo sapiens
2233	194743	FLJ14454	LR77	1856	KKDYQYPKSLDLSNVGC	Homo sapiens
2234	194743	FLJ14454	LR77	1857	KNLQTSDDGINNIDFDNN	Homo sapiens
2235	194743	FLJ14454	LR77	1858	SQNGNNPQWELDYRQEKIC	Homo sapiens
2236	194743	FLJ14454	LR77	1859	RPRLRVKMYNFLRSLPTLHE	Homo sapiens
2237	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1845	CNPSVPKQRVMKLTGM	Homo sapiens
2238	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1846	RLTRWRTRYKTIRINLG	Homo sapiens
2239	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1847	KDGVESCAFDLTSPPDDVL	Homo sapiens
2240	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1848	LSGNFQKRLPQIGRRATE	Homo sapiens

2241	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1849	TIIRSRKKTVPDIYIC	Homo sapiens
2242	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1907	RRATEKEINNMGNLTKSHF	Homo sapiens
2243	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2089	CRIEGDTISQVMPPLLIVA	Homo sapiens
2244	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2090	RRHWAFGDIPCRVGLFTL	Homo sapiens
2245	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2091	CESFIMESANGWHDIM	Homo sapiens
2246	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2092	CSFKIVWSLRRRQQLARQAR	Homo sapiens
2247	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2093	RRRQQLARQARMKKATR	Homo sapiens
2248	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2094	TVPSACDPSVHGALH	Homo sapiens
2249	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2095	CSLKPQKPGHKTQRPEEM	Homo sapiens
2250	194756	Chemokine Receptor FKS80/GPR81	AAK29071.1	2096	CISVANFSQSDGQWD	Homo sapiens
2251	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2034	RTRKQHSEATNSSNRVFVC	Homo sapiens
2252	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2035	RVISQISADNYKIHGDPSA	Homo sapiens
2253	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2036	TSSSARTSNAKPFHSD	Homo sapiens
2254	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2037	NGTRPGMASTKLSPWD	Homo sapiens
2255	194858	G Protein-Coupled Receptor Ls194858	LR84	1933	LGIAWDRRLRSPAGC	Homo sapiens
2256	194858	G Protein-Coupled Receptor Ls194858	LR84	1934	GERYMAVLRPLQPPGS	Homo sapiens
2257	194858	G Protein-Coupled Receptor Ls194858	LR84	1935	CRDEPSALARALTWRQAR	Homo sapiens
2258	194858	G Protein-Coupled Receptor Ls194858	LR84	1936	AAQRCLQGLWGRASRD	Homo sapiens
2259	194858	G Protein-Coupled Receptor Ls194858	LR84	1937	RDSPGPSIAYHPSSQSSVD	Homo sapiens
2260	194878	MigX3 G Protein-Coupled	AAK91806.1	2748	ALFSRIHLDWKVLF	Homo sapiens

2261	194903	Receptor G Protein-Coupled Receptor GPCR _{B3}	ENSP00000198236	1991	CIAFKDIMPFSAQVGDER	Homo sapiens
2262	194903	G Protein-Coupled Receptor GPCR _{B3}	ENSP00000198236	1992	KAFEEAVARADKKAPRPC	Homo sapiens
2263	194903	G Protein-Coupled Receptor GPCR _{B3}	ENSP00000198236	1993	ETKIQWHGKDNQVPKSVCS	Homo sapiens
2264	194903	G Protein-Coupled Receptor GPCR _{B3}	ENSP00000198236	1994	CSYLGKDLPENVNEAK	Homo sapiens
2265	194904	WO0034334-hFB41A	LR114	2011	SDYDMPLEDEDEDVTNS	Homo sapiens
2266	194904	WO0034334-hFB41A	LR114	2014	NPHGAHATSPFNFSY	Homo sapiens
2267	194905	G Protein-Coupled Receptor MGC7035	LR112	1986	ERALPRTYMASVYNTRHVC	Homo sapiens
2268	194905	G Protein-Coupled Receptor MGC7035	LR112	1987	CAKMQNAEAAADATLVF	Homo sapiens
2269	194905	G Protein-Coupled Receptor MGC7035	LR112	1988	DRDTGRLEPSAHRLLVATVC	Homo sapiens
2270	194905	G Protein-Coupled Receptor MGC7035	LR112	1989	RYMNQSFPSKLQRLMKKLPC	Homo sapiens
2271	194907	G Protein-Coupled Receptor 14273	LR116	2003	CARAAAGDAPLRSLEQANRTR	Homo sapiens
2272	194907	G Protein-Coupled Receptor 14273	LR116	2004	VISYSKILQTTKASRKRL	Homo sapiens
2273	194907	G Protein-Coupled Receptor 14273	LR116	2005	TVSLAYSRSRSHQIRVSQQD	Homo sapiens
2274	194907	G Protein-Coupled Receptor 14273	LR116	2006	CTWFEKGAILTDSVKRND	Homo sapiens
2275	194908	G Protein-coupled Receptor Gpcrb4	LR117	2007	TYGRDNGQLLGERVARRDIC	Homo sapiens
2276	194908	G Protein-coupled Receptor Gpcrb4	LR117	2008	QETLPTLQPNQNMVTSEERQR	Homo sapiens
2277	194908	G Protein-coupled Receptor Gpcrb4	LR117	2009	RTSQSYTCNQECDNCLNAT	Homo sapiens
2278	194908	G Protein-coupled Receptor Gpcrb4	LR117	2010	RPQSHPRTPDDPKITIVSC	Homo sapiens
2279	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2312	VARRQAKKIENTGSKT	Homo sapiens
2280	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2313	KVIVTGQVLKNSA	Homo sapiens

2281	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2318	MISSNSLLVAVQLC	Homo sapiens
2282	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2307	IAKQQAIAKIETSSKV	Homo sapiens
2283	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2314	MTSNFSQPVVQLC	Homo sapiens
2284	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2319	KILSGDVLKAS	Homo sapiens
2285	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2570	SGDVLKASSSTISLFLE	Homo sapiens
2286	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	2727	QDKPEVDKGGEGQLPEESL	Homo sapiens
2287	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	2728	LINISHURKILVS	Homo sapiens
2288	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	2729	MDPTVPVFGTKL	Homo sapiens
2289	195015	G Protein-Coupled Receptor GPR82	AAL26482	2706	RYATLMQKDSQETT	Homo sapiens
2290	195015	G Protein-Coupled Receptor GPR82	AAL26482	2707	KIFYGHLLKKFRQPNF	Homo sapiens
2291	195015	G Protein-Coupled Receptor GPR82	AAL26482	2708	YSVIEATEGEESLC	Homo sapiens
2292	195015	G Protein-Coupled Receptor GPR82	AAL26482	2715	CTSIMKEDLTYSVVKR	Homo sapiens

SEQ ID NO:	LS_ID	Gene	Antibody Company Name
1	127	5-HT1A Receptor	Chemicon
1	127	5-HT1A Receptor	Research Diagnostics
1	127	5-HT1A Receptor	Santa Cruz
3	128	5-HT1B Receptor	Chemicon
3	128	5-HT1B Receptor	Research Diagnostics
3	128	5-HT1B Receptor	Santa Cruz
5	129	5-HT1D Receptor	Research Diagnostics
5	129	5-HT1D Receptor	Santa Cruz
11	132	5-HT2A Receptor	Calbiochem
11	132	5-HT2A Receptor	Research Diagnostics
13	133	5-HT2B Receptor	Research Diagnostics
15	134	5-HT2C Receptor	Research Diagnostics
15	134	5-HT2C Receptor	Santa Cruz
21	139	5-HT7 Receptor	Calbiochem
23	272	Adenosine A1 Receptor	Alpha Diagnostic Int.
23	272	Adenosine A1 Receptor	Calbiochem
23	272	Adenosine A1 Receptor	Santa Cruz
25	273	Adenosine A2a Receptor	Alpha Diagnostic Int.
25	273	Adenosine A2a Receptor	Calbiochem
25	273	Adenosine A2a Receptor	Chemicon
25	273	Adenosine A2a Receptor	Santa Cruz
27	274	Adenosine A2b Receptor	Alpha Diagnostic Int.
27	274	Adenosine A2b Receptor	Chemicon
27	274	Adenosine A2b Receptor	Santa Cruz
29	275	Adenosine A3 Receptor	Alpha Diagnostic Int.
29	275	Adenosine A3 Receptor	Santa Cruz
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Alpha Diagnostic Int.
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Chemicon
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Research Diagnostics
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Santa Cruz
35	377	Alpha 1b-adrenoceptor	Research Diagnostics
35	377	Alpha 1b-adrenoceptor	Santa Cruz
37	379	Alpha 1c-adrenoceptor	Research Diagnostics
37	379	Alpha 1c-adrenoceptor	Santa Cruz
39	387	Alpha 2a-adrenoceptor	Calbiochem
39	387	Alpha 2a-adrenoceptor	Santa Cruz
41	388	Alpha 2b-adrenoceptor	Research Diagnostics
41	388	Alpha 2b-adrenoceptor	Santa Cruz
43	389	Alpha 2c-adrenoceptor	Research Diagnostics
43	389	Alpha 2c-adrenoceptor	Santa Cruz
45	599	Bradykinin B1 Receptor	Research Diagnostics
49	635	Beta-1 adrenoceptor	Calbiochem
49	635	Beta-1 adrenoceptor	Research Diagnostics

49	635	Beta-1 adrenoceptor	Santa Cruz
51	640	Beta-2 adrenoceptor	Research Diagnostics
51	640	Beta-2 adrenoceptor	Santa Cruz
53	643	Beta-3 adrenoceptor	Alpha Diagnostic Int.
53	643	Beta-3 adrenoceptor	Chemicon
53	643	Beta-3 adrenoceptor	Research Diagnostics
53	643	Beta-3 adrenoceptor	Santa Cruz
57	692	Bombesin Receptor Subtype-3	Alpha Diagnostic Int.
57	692	Bombesin Receptor Subtype-3	Chemicon
59	729	CXC Chemokine Receptor 5	Research Diagnostics
59	729	CXC Chemokine Receptor 5	Santa Cruz
61	735	C-C Chemokine Receptor 1	Calbiochem
61	735	C-C Chemokine Receptor 1	Capralogics
61	735	C-C Chemokine Receptor 1	Chemicon
61	735	C-C Chemokine Receptor 1	Research Diagnostics
61	735	C-C Chemokine Receptor 1	Santa Cruz
63	737	C-C Chemokine Receptor 3	Research Diagnostics
63	737	C-C Chemokine Receptor 3	Santa Cruz
65	738	C-C Chemokine Receptor 4	Capralogics
65	738	C-C Chemokine Receptor 4	Research Diagnostics
65	738	C-C Chemokine Receptor 4	Santa Cruz
67	741	C-C Chemokine Receptor 7	Research Diagnostics
67	741	C-C Chemokine Receptor 7	Santa Cruz
69	742	C-C Chemokine Receptor 8	Chemicon
70	742	C-C Chemokine Receptor 8	Chemicon
71	742	C-C Chemokine Receptor 8	Chemicon
73	752	CXC Chemokine Receptor 3	Research Diagnostics
73	752	CXC Chemokine Receptor 3	Santa Cruz
73	752	CXC Chemokine Receptor 3	Zymed
75	753	CXC Chemokine Receptor 4	Biosource
75	753	CXC Chemokine Receptor 4	Calbiochem
75	753	CXC Chemokine Receptor 4	Capralogics
75	753	CXC Chemokine Receptor 4	Chemicon
75	753	CXC Chemokine Receptor 4	eBioscience
75	753	CXC Chemokine Receptor 4	Research Diagnostics
75	753	CXC Chemokine Receptor 4	Santa Cruz
77	755	Complement Component 3a Receptor 1	Chemokine.com
79	758	Complement Component 5a Receptor 1	Santa Cruz
83	832	Cannabinoid Receptor 1	Alpha Diagnostic Int.
83	832	Cannabinoid Receptor 1	Biosource
83	832	Cannabinoid Receptor 1	Calbiochem
83	832	Cannabinoid Receptor 1	Cayman
83	832	Cannabinoid Receptor 1	Chemicon
83	832	Cannabinoid Receptor 1	Santa Cruz
85	833	Cannabinoid Receptor 2	Alpha Diagnostic Int.
85	833	Cannabinoid Receptor 2	Calbiochem
85	833	Cannabinoid Receptor 2	Cayman
85	833	Cannabinoid Receptor 2	Chemicon
85	833	Cannabinoid Receptor 2	Santa Cruz
97	1240	Dopamine Receptor D1	Alpha Diagnostic Int.
97	1240	Dopamine Receptor D1	Biogenesis

97	1240	Dopamine Receptor D1	Calbiochem
97	1240	Dopamine Receptor D1	Chemicon
97	1240	Dopamine Receptor D1	FabGennix through Abcam
97	1240	Dopamine Receptor D1	Research Diagnostics
97	1240	Dopamine Receptor D1	Santa Cruz
99	1241	Dopamine Receptor D5	Alpha Diagnostic Int.
99	1241	Dopamine Receptor D5	Biogenesis
99	1241	Dopamine Receptor D5	Calbiochem
99	1241	Dopamine Receptor D5	Chemicon
99	1241	Dopamine Receptor D5	Santa Cruz
101	1242	Dopamine Receptor D2	Alpha Diagnostic Int.
101	1242	Dopamine Receptor D2	Biogenesis
101	1242	Dopamine Receptor D2	Calbiochem
101	1242	Dopamine Receptor D2	Chemicon
101	1242	Dopamine Receptor D2	DPC Biermann/Acris
101	1242	Dopamine Receptor D2	FabGennix through Abcam
101	1242	Dopamine Receptor D2	Research Diagnostics
101	1242	Dopamine Receptor D2	Santa Cruz
103	1243	Dopamine Receptor D3	Alpha Diagnostic Int.
103	1243	Dopamine Receptor D3	Biogenesis
103	1243	Dopamine Receptor D3	Calbiochem
103	1243	Dopamine Receptor D3	Chemicon
103	1243	Dopamine Receptor D3	Research Diagnostics
103	1243	Dopamine Receptor D3	Santa Cruz
103	1243	Dopamine Receptor D3	Zymed
105	1244	Dopamine Receptor D4	Alpha Diagnostic Int.
105	1244	Dopamine Receptor D4	Biogenesis
105	1244	Dopamine Receptor D4	Calbiochem
105	1244	Dopamine Receptor D4	Chemicon
105	1244	Dopamine Receptor D4	DPC Biermann/Acris
105	1244	Dopamine Receptor D4	Santa Cruz
107	1267	Opioid Receptor, delta 1 (OPRD1)	Biosource
107	1267	Opioid Receptor, delta 1 (OPRD1)	Calbiochem
107	1267	Opioid Receptor, delta 1 (OPRD1)	DPC Biermann/Acris
107	1267	Opioid Receptor, delta 1 (OPRD1)	Santa Cruz
113	1486	Endothelin B Receptor	Biogenesis
113	1486	Endothelin B Receptor	Capralogics
113	1486	Endothelin B Receptor	DPC Biermann/Acris
113	1486	Endothelin B Receptor	Fitzgerald Industries Int.
113	1486	Endothelin B Receptor	Research Diagnostics
115	1488	Endothelin A Receptor	Biogenesis
115	1488	Endothelin A Receptor	Capralogics
115	1488	Endothelin A Receptor	DPC Biermann/Acris
115	1488	Endothelin A Receptor	Fitzgerald Industries Int.
115	1488	Endothelin A Receptor	Research Diagnostics
117	1598	Calcium-Sensing Receptor (CASR)	Chemicon
117	1598	Calcium-Sensing Receptor (CASR)	DPC Biermann/Acris

121	1681	Follicle Stimulating Hormone Receptor	Biogenesis
121	1681	Follicle Stimulating Hormone Receptor	DPC Biermann/Acris
121	1681	Follicle Stimulating Hormone Receptor	Santa Cruz
125	1762	Galanin Receptor GalR1	Alpha Diagnostic Int.
135	1925	Gonadotropin-Releasing Hormone Receptor	Biocarta
135	1925	Gonadotropin-Releasing Hormone Receptor	Lab Vision Corporation/NeoMarkers
135	1925	Gonadotropin-Releasing Hormone Receptor	Research Diagnostics
135	1925	Gonadotropin-Releasing Hormone Receptor	Santa Cruz
139	1951	Growth Hormone Secretagogue Receptor	Santa Cruz
143	2120	Histamine H1 Receptor	Alpha Diagnostic Int.
143	2120	Histamine H1 Receptor	Chemicon
145	2121	Histamine H2 Receptor	Alpha Diagnostic Int.
145	2121	Histamine H2 Receptor	Chemicon
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Biosource
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Calbiochem
147	2783	Opioid Receptor, kappa 1 (OPRK1)	DPC Biermann/Acris
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Santa Cruz
151	2976	Lysophosphatidic Acid Receptor Edg2	Exalpha Biologicals
155	3057	Melanocortin 3 Receptor (MC3R)	Alpha Diagnostic Int.
155	3057	Melanocortin 3 Receptor (MC3R)	Chemicon
155	3057	Melanocortin 3 Receptor (MC3R)	Research Diagnostics
155	3057	Melanocortin 3 Receptor (MC3R)	Santa Cruz
157	3058	Melanocortin 4 Receptor (MC4R)	Alpha Diagnostic Int.
157	3058	Melanocortin 4 Receptor (MC4R)	Chemicon
157	3058	Melanocortin 4 Receptor (MC4R)	Research Diagnostics
157	3058	Melanocortin 4 Receptor (MC4R)	Santa Cruz
159	3059	Melanocortin 5 Receptor (MC5R)	Alpha Diagnostic Int.
159	3059	Melanocortin 5 Receptor (MC5R)	Chemicon
159	3059	Melanocortin 5 Receptor (MC5R)	Research Diagnostics

159	3059	Melanocortin 5 Receptor (MC5R)	Santa Cruz
161	3061	Melanocortin 1 Receptor (MC1R)	Alpha Diagnostic Int.
161	3061	Melanocortin 1 Receptor (MC1R)	Chemicon
161	3061	Melanocortin 1 Receptor (MC1R)	Research Diagnostics
161	3061	Melanocortin 1 Receptor (MC1R)	Santa Cruz
169	3093	Metabotropic Glutamate Receptor 1	Chemicon
171	3094	Metabotropic Glutamate Receptor 2	Chemicon
173	3095	Metabotropic Glutamate Receptor 3	Chemicon
175	3096	Metabotropic Glutamate Receptor 4	Zymed
177	3097	Metabotropic Glutamate Receptor 5	Chemicon
183	3100	Metabotropic Glutamate Receptor 8	Chemicon
185	3212	Opioid mu-type Receptor	Biosource
185	3212	Opioid mu-type Receptor	Calbiochem
185	3212	Opioid mu-type Receptor	Chemicon
185	3212	Opioid mu-type Receptor	DPC Biermann/Acris
185	3212	Opioid mu-type Receptor	Santa Cruz
187	3223	Muscarinic acetylcholine Receptor M1	Biogenesis
187	3223	Muscarinic acetylcholine Receptor M1	Calbiochem
187	3223	Muscarinic acetylcholine Receptor M1	Chemicon
187	3223	Muscarinic acetylcholine Receptor M1	Santa Cruz
189	3224	Muscarinic acetylcholine Receptor M2	Biogenesis
189	3224	Muscarinic acetylcholine Receptor M2	Calbiochem
189	3224	Muscarinic acetylcholine Receptor M2	Chemicon
189	3224	Muscarinic acetylcholine Receptor M2	Santa Cruz
191	3226	Muscarinic acetylcholine Receptor M4	Biogenesis
192	3226	Muscarinic acetylcholine Receptor M4	Biogenesis
191	3226	Muscarinic acetylcholine Receptor M4	Chemicon
192	3226	Muscarinic acetylcholine Receptor M4	Chemicon
191	3226	Muscarinic acetylcholine Receptor M4	Santa Cruz

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192	3226	Muscarinic acetylcholine Receptor M4	Santa Cruz
194	3227	Muscarinic Acetylcholine Receptor M5	Biogenesis
194	3227	Muscarinic Acetylcholine Receptor M5	Santa Cruz
200	3404	Neuropeptide Y Receptor Type 2	Biogenesis
202	3405	Neuropeptide Y Receptor Type 4	Biogenesis
206	3408	Neurotensin Receptor Type 1	Santa Cruz
208	3452	Opiate Receptor-Like 1 (OPRL1)	Santa Cruz
214	3582	Oxytocin Receptor	Santa Cruz
216	3589	Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2)	Chemicon
216	3589	Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2)	Zymed
218	3595	Purinergic Receptor P2Y1	Chemicon
218	3595	Purinergic Receptor P2Y1	Zymed
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Biocarta
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Lab Vision Corporation/NeoMarkers
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Santa Cruz
236	3846	Sphingolipid Receptor Edg1	Exalpha Biologicals
238	3847	Sphingolipid Receptor Edg3	Exalpha Biologicals
240	3848	C-C Chemokine Receptor 9	Research Diagnostics
248	3852	CX3C Chemokine Fractalkine Receptor 1	Chemicon
248	3852	CX3C Chemokine Fractalkine Receptor 1	Chemokine.com
248	3852	CX3C Chemokine Fractalkine Receptor 1	eBioscience
250	3853	G Protein-Coupled Receptor GPR15	Santa Cruz
264	3860	G Protein-Coupled Receptor SLC/MCH1	Alpha Diagnostic Int.
264	3860	G Protein-Coupled Receptor SLC/MCH1	Santa Cruz
295	3927	Prostaglandin E Receptor EP4	Cayman
299	4051	Proteinase-Activated Receptor 2	Research Diagnostics
299	4051	Proteinase-Activated Receptor 2	Santa Cruz
301	4052	Proteinase-Activated Receptor 3	Research Diagnostics
301	4052	Proteinase-Activated Receptor 3	Santa Cruz
305	4254	Rhodopsin	Biocarta
305	4254	Rhodopsin	DPC Biermann/Acris
311	4480	Somatostatin Receptor Type 1	Santa Cruz

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313	4481	Somatostatin Receptor Type 2	Biogenesis
313	4481	Somatostatin Receptor Type 2	Santa Cruz
315	4482	Somatostatin Receptor Type 3	Santa Cruz
317	4483	Somatostatin Receptor Type 4	Santa Cruz
319	4484	Somatostatin Receptor Type 5	Santa Cruz
321	4552	Tachykinin Receptor 1	Santa Cruz
323	4687	Thrombin Receptor	DPC Biermann/Acris
323	4687	Thrombin Receptor	Research Diagnostics
323	4687	Thrombin Receptor	Santa Cruz
325	4734	Thyrotropin Releasing Hormone Receptor	Santa Cruz
327	4944	Angiotensin II Type 1 Receptor	Alpha Diagnostic Int.
327	4944	Angiotensin II Type 1 Receptor	Biocarta
327	4944	Angiotensin II Type 1 Receptor	Biogenesis
327	4944	Angiotensin II Type 1 Receptor	Capralogics
327	4944	Angiotensin II Type 1 Receptor	Chemicon
327	4944	Angiotensin II Type 1 Receptor	DPC Biermann/Acris
327	4944	Angiotensin II Type 1 Receptor	Fitzgerald Industries Int.
327	4944	Angiotensin II Type 1 Receptor	Fitzgerald Industries Int.
327	4944	Angiotensin II Type 1 Receptor	Lab Vision Corporation/NeoMarkers
327	4944	Angiotensin II Type 1 Receptor	Santa Cruz
329	4946	Angiotensin II Type 2 Receptor	Alpha Diagnostic Int.
329	4946	Angiotensin II Type 2 Receptor	DPC Biermann/Acris
329	4946	Angiotensin II Type 2 Receptor	Santa Cruz
331	5072	Pyrimidinergic Receptor P2Y4	Chemicon
333	5117	Vasopressin V1A Receptor	Chemicon
335	5118	Vasopressin V1B Receptor	Alpha Diagnostic Int.
335	5118	Vasopressin V1B Receptor	Chemicon
337	5119	Vasopressin V2 Receptor	Alpha Diagnostic Int.
337	5119	Vasopressin V2 Receptor	Chemicon
337	5119	Vasopressin V2 Receptor	Research Diagnostics
347	6031	SIV/HIV Receptor BONZO	Santa Cruz
349	6204	Lysophosphatidic Acid Receptor Edg4	Exalpha Biologicals
351	6213	C-C Chemokine Receptor 5	Calbiochem
351	6213	C-C Chemokine Receptor 5	Capralogics
351	6213	C-C Chemokine Receptor 5	Chemicon
351	6213	C-C Chemokine Receptor 5	Research Diagnostics
351	6213	C-C Chemokine Receptor 5	Santa Cruz
361	6853	Purinergic Receptor P2Y11	Zymed

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365	7221	Galanin Receptor GalR2	Alpha Diagnostic Int.
367	7246	Orexin Receptor 1	Alpha Diagnostic Int.
369	7247	Orexin Receptor 2	Alpha Diagnostic Int.
371	8436	Platelet-Activating Factor Receptor	Cayman
371	8436	Platelet-Activating Factor Receptor	Santa Cruz
377	9421	Neuropeptide Y Receptor Type 1	Biogenesis
377	9421	Neuropeptide Y Receptor Type 1	DPC Biermann/Acris
379	9834	Corticotropin releasing factor Receptor 1	Research Diagnostics
379	9834	Corticotropin releasing factor Receptor 1	Santa Cruz
385	14198	Interleukin-8 Receptor B	Biosource
385	14198	Interleukin-8 Receptor B	R&D Systems
385	14198	Interleukin-8 Receptor B	Research Diagnostics
385	14198	Interleukin-8 Receptor B	Santa Cruz
387	14641	Calcitonin Receptor	Santa Cruz
389	16041	C-C Chemokine Receptor 6	Research Diagnostics
389	16041	C-C Chemokine Receptor 6	Santa Cruz
391	16599	Smoothened	Research Diagnostics
391	16599	Smoothened	Santa Cruz
397	17535	Gaba(b) Receptor 1	Alpha Diagnostic Int.
397	17535	Gaba(b) Receptor 1	Calbiochem
397	17535	Gaba(b) Receptor 1	Chemicon
397	17535	Gaba(b) Receptor 1	Santa Cruz
423	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	Santa Cruz
435	54053	Gaba(b) Receptor 2	Alpha Diagnostic Int.
435	54053	Gaba(b) Receptor 2	Chemicon
439	56923	Muscarinic acetylcholine Receptor M3	Biogenesis
439	56923	Muscarinic acetylcholine Receptor M3	Santa Cruz
457	152201	Thyrotropin Receptor	DPC Biermann/Acris
457	152201	Thyrotropin Receptor	Santa Cruz
459	152245	C-C Chemokine Receptor 2	Research Diagnostics
459	152245	C-C Chemokine Receptor 2	Santa Cruz
461	152299	Interleukin-8 Receptor A	Biosource
462	152299	Interleukin-8 Receptor A	Biosource
461	152299	Interleukin-8 Receptor A	R&D Systems
462	152299	Interleukin-8 Receptor A	R&D Systems
461	152299	Interleukin-8 Receptor A	Research Diagnostics
462	152299	Interleukin-8 Receptor A	Research Diagnostics
461	152299	Interleukin-8 Receptor A	Santa Cruz
462	152299	Interleukin-8 Receptor A	Santa Cruz
468	159973	Vasoactive Intestinal Polypeptide Receptor 1	Exalpha Biologicals
470	160040	Vasoactive Intestinal Polypeptide Receptor 2	Exalpha Biologicals
472	160055	Motilin Receptor (GPR38)	Santa Cruz

503	160228	T-Cell Death-Associated Gene 8 (GPR65)	Santa Cruz
507	160312	Sphingolipid Receptor Edg5	Exalpha Biologicals
515	160329	Proteinase-Activated Receptor 4	Santa Cruz
535	161214	Galanin Receptor GalR3	Alpha Diagnostic Int.
537	161221	Urotensin-II Receptor (GPR14)	Santa Cruz
546	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Cayman
548	177191	Histamine H3 Receptor	Alpha Diagnostic Int.
548	177191	Histamine H3 Receptor	Chemicon
552	180956	Lysophosphatidic Acid Receptor Edg7	Exalpha Biologicals
562	189900	Sphingolipid Receptor Edg8	Exalpha Biologicals
628	190774	Histamine H4 Receptor	Alpha Diagnostic Int.
628	190774	Histamine H4 Receptor	Chemicon
636	190955	Leukotriene B4 Receptor BLT1	Cayman